

**AHMEDABAD TEXTILE
INDUSTRY'S
RESEARCH ASSOCIATION**

2019-2020

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Phones: 26307921-22-23, 26305132, 26306365, 26302874, 26303363
Fax: 079-26304677, 26301969
E-mail : clc@atira.in, Website: www.atira.in
Printed by: Print Art Mudranalaya, Ahmedabad 380 007. Mobile : 98252 63622

CONTENTS

	Page
HIGHLIGHTS OF RESEARCH AND DEVELOPMENTS	1
INDEPENDENT AUDITOR'S REPORT	11
ANNUAL ACCOUNTS 2019-2020	13
ANNEXURES	
Annexure I : Publication	35
Annexure II : Talks and Papers	35
Annexure III : Technical Training Programme	37
Annexure IV : Testing	38
Annexure V : New Machinery / Equipments	39
Annexure VI : Members of the Council of Administration	40
Annexure VII : Members of the Committee	41
Annexure VIII : Staff	42
Annexure IX : Nomination, Recognition	43
Annexure X : Visitors	45

HIGHLIGHTS OF RESEARCH AND DEVELOPMENTS

COMPOSITES

DEVELOPMENT OF CARBON FIBER BASED COMPOSITES FOR SPACE

APPLICATIONS UNDER ATIRA- SAC (ISRO) MOU

Composites have been used in space applications for decades, and their use continues to grow. Composite applications can be found on human spaceflight vehicles, satellites and payloads, and the launch vehicles that are used to get these to space. Composites are enabling for spacecraft where lightweight and environmental stability are critical to mission success. They are also used extensively in launch vehicles for a growing number of applications. Solid rocket motors and pressure vessels for fuel and gas storage are typically reinforced with composites. Composites also are the standard for ablative and other high temperature components in rocket motor nozzles and reentry heat shields dating back to the Apollo era.

The E space program and development in space research has been the prime focus of many developed and developing countries. It provides the country with a broad scope of beneficial applications which includes citizen development, mass communication, agriculture, economy, defense, scientific and medical research Satellite, Launch Vehicle and Space Centre are the three key components under the umbrella of any space program. Satellite can be described as any entity dedicatedly launched into space that orbits a star, planet or earth with a mission to gather and collect information Launch Vehicles can be described as

heavy rockets that are used to transport Satellites, astronauts or other payloads to Space from earth and vice versa as shown in Figure 2[4]. Space Centre or space port can be described as a port or pad from where the satellite or payload is launched into space using a launch vehicle. It is also used to receive Launch vehicles bringing astronauts back to earth after a mission. Composite materials are potential candidates in space applications and have dominated the space industry due to their cost-effectiveness, ease of process ability, high strength to weight ratio, multi-functionality and diverse properties in terms of thermal insulation and ablation for deployable instruments.

Product Development:

As part of the ATIRA-SAC (ISRO) MoU the following components were developed:

1. Bracket for-GSAT-20

GSAT-20 is an Indian geostationary Ka-band high-throughput communications satellite. GSAT 20 is built on the I-3K unified modular bus and features a Ka × Ka high-throughput communications payload with 70 Gbps throughput utilizing multiple spot beams providing broadband services across the Indian region. GSAT-20 will be a continuation of GSAT series of communication satellites. The satellite is intended to add data transmission capacity to the communication infrastructure required by Smart Cities Mission of India.

Lunch a rocket carrying satellite into the space requires an enormous amount of energy and money. So, the payload of the satellites are designed considering the following criteria

- They must be light as much as possible
- They must be rigid as much as possible
- They must be robust as much as possible to withstand the harsh conditions outer space.

High modulus carbon fiber Carbon fiber composite materials offering excellent specific strength/ specific modulus of elasticity and allowing for weight reduction through anisotropy-based optimal design are most suited for this weight reduction, and since their coefficient of thermal expansion is approx. one-tenth that of metals, carbon fiber composite materials are extremely stable dimensionally under temperature shifts; in all aspects, they are best material for space applications.

Bracket for GSAT-20 was designed and developed by high modulus space grade CFRP sandwich components and assembled to a very light weight structure.

2. Beacon Horn

The growing interest in higher capacity communications satellite necessitates the development of compact and lightweight other antennas (such as beacon horn antenna) at Earth-viewing deck due to crowded accommodation and weight limitation. It is an innovative and compact high-gain composite horn antenna for space-borne beacon application. We have designed, manufactured and measured beacon horn antenna operating from 10.7 GHz to 12.5 GHz.

Manufacturing of the horn using CFRP composite to make it light weight, strong and having very low CTE using high modulus carbon fiber.

3. 3.5 meter CFRP reflector

It is worth noticing for high frequency applications that there are additional factors to be taken into account in the development of the system,

requiring parallel technological developments:

Onboard flexibility is generally required for higher frequencies, to cope with the sensibility of the Ka band to rain attenuation;

Lower RMS error required as the working frequency increases;

Higher pointing accuracy is needed, because of the smaller beams.

For Earth observation missions, such as radiometers, altimeters and synthetic aperture radars, the frequencies of operation can span from P to Ka band.

This composite carbon fiber antenna system is designed to meet the demanding performance and operational requirements needed for Ka-band frequencies, Q/V-band frequencies and beyond. It is made in three pieces to ease in transportation and engineered to make it a foldable antennae system.

Modern RF ground systems demand the ultimate combination of price and performance, and these innovative antennas are specifically designed with these needs in mind.

The advantages of the reflectors are as follows:

- Composite carbon fiber reflector and back structure, 10m or 6m now available
- Precision surface accuracy for all frequency bands, including Q/V-band frequencies & higher
- Lightweight, ultra-strong design minimizes thermal, wind and gravity loads
- Minimize deployment costs – reduced shipping weight, fast installation time

Composite testing

CIPP (Cured in place pipe) liner PIPE Testing

Representative from IIT, Reline UV GmbH, TTI consultant, Reline UV Asian MD, Delhi Jal board have

witnessed the testing of samples of CIPP pipe dia. 450 mm to compare product specification and found satisfactory has approved ATIRA lab for testing of liner pipe for rehabilitation work of sewage line project for Delhi location.

Addition of new test facility for railway materials testing in HFT Lab.

A new facility has been installed to accommodate fire test requirement of FRP materials used in Indian railway.

As the demand rises and requirement of products related to human fire safety has been enhanced which are used in Indian railway made us to think incorporation of testing facilities for the test method Spread of Flame tester as per UIC 564-2 Appendix-4 & 11 and Smoke Index tester as per UIC 564-2 Appendix-15 in order to support Indian railway supplier to qualify and development of their product

Further to last year's empanelment of our composite lab by RITES for their Railway supplies, this year, we have been approved by Rail Coach Factory (RCF) and ICF for conducting their 3rd party testing.

New Test Methods:

12 New test methods have been developed related to testing of either FRP Pultruded section or FRP Tanks or FRP Pipes.

- 1 DSC- Oxygen Induction Time
- 2 FRP Moulded Grating Load test
- 3 Full section -Compression /Buckling test
- 4 Pipe stiffness test
- 5 UTUS as per BS EN 13121
- 6 Epoxy Glass rod test
- 7 ILSS as per BS EN 13121
- 8 Peel strength as per BS EN 13121
- 9 PU Foam tests
- 10 Molded Grating Line load test
- 11 Full section test as per ASTM D8069 & BS EN 13706

Environment Engineering Division

- **Highlights summarizing various services provided to the Industries in the area of Environmental Engineering by ATIRA:**

A. ATIRA has been a recognized Environment Auditor for the Schedule- I group of Industries since the year 2001. The recognition is renewed for the years up to 2021. A total number of Industrial clients for the calendar year 2019-20 are **12**.

The environmental Audit includes following steps towards better compliance of norms stipulated by the State pollution control board leading to preservation of environment. The broad steps of Environment Audit are:

- Industrial Visit
- Monthly Data Collection
- Sampling & Monitoring
- Analysis of collected Samples
- Compliance report
- Adequacy certification
- Final Report Preparation

Environment Audit is mandatory as per guidelines stipulated by the Hon'ble High court of Gujarat. As per prevailing guidelines, every polluting industry has to get Environment Audit to be conducted by the Environment Auditor, recognized by both the Hon'ble High court of Gujarat and Gujarat Pollution Control Board (GPCB). As per prevailing policy, the Environment Audit clients are assigned to each recognized Auditors by the GPCB. Charges are also decided by the GPCB, including other terms and conditions. Number of clients assigned to each auditor is also decided keeping in mind the quality and integrity aspects. Under the circumstances, we, as Auditors, have no freedom to or change any terms and conditions pertaining to Environment Audits.

We have two teams for Environment Audit work recognized by GPCB, Each team have **mandatory require four members** have following qualification:

Names, addresses and technical qualifications of members of each Team of Auditors (As per GPCB Audit Scheme)

- A person possessing a degree in **Environmental Engineering** awarded by a University recognized in India or abroad
- A person possessing a degree in **Chemical Engineering** awarded by a University recognized in India or abroad.
- A person possessing a **degree in Chemistry** awarded by a University recognized in India or abroad.
- A person possessing a **degree in Micro Biology/Bio-Chemistry, Chemistry, Biotechnology, Zoology, Environment Science, Climate Change, Forensic Science, Life Science or other similar degree**, awarded by a recognized university or institute in India or abroad.

B. Environment Management System Adequacy Certification & Assessment Report:

26 industries availed services from ATIRA, during the year 2019-20. Such certification is required, as per stipulations of the GPCB, in case the industry is desirous of any change in product mix/production capacity/production pattern.

Area in Adequacy Certification:

1. Proposed Product
2. Product Change
3. Product Mix
4. ETP Upgradation
5. APCM upgradation
6. Proposed (New) Plant
7. EMS System adequate for Existing Plant

The broad steps of Adequacy Certification are:

- Industrial Visit
- Data Collection

- Sampling & Monitoring
- Analysis of collected Samples
- Final Report Preparation

C. Sampling and analysis of Water, Waste water, Gaseous Emissions and Process as well as Flue Gases, Hazardous Waste, is another area where Industries avail services from ATIRA. Total ~ **600** samples were analyzed during the year, over and above samples from the Environment Audit clients. Here, sampling and analysis of water/waste water/flue/stack gases, gaseous emissions and solid wastes are carried out and analysis reports are submitted.

D. Monthly Monitoring as well as Industrial Survey for different Industries is another area where Industries avail services from ATIRA. One industry availed services from ATIRA, during the year 2019-20; Total ~ **40** samples were analyzed during the year, from the Monthly Monitoring clients. A number of industries avail such monitoring services on respective need basis. Here, sampling and analysis of water/waste water/flue/stack gases, gaseous emissions and solid wastes are carried out and analysis reports are submitted.

E. Soil and Ground water Study: methodology for assessment of extent of soil and groundwater contamination

F. NABL Training Programme organized on Implementation of ISO/IEC 17025:2017 & Internal Auditing on 11th to 14th March at ATIRA. Measurement of Uncertainty (MU)- Estimation and budget of Uncertainty as per ISO/IEC 17025:2017" held at ATIRA, Ahmedabad from 16th to 17th April 2019.

G. Environmental Gas Calibration lab setup at ATIRA for Ambient Air Monitoring Instruments

List of units for which EAR was undertaken during the Year

Sr. No.	Name of Client
1	Society for clean and green environment
2	Associated Dyestuff Pvt. Ltd.
3	Aculife Healthcare Private Limited
4	Novel Spent Acid Management
5	Nandan Chiripal Energy Corporation Ltd.
6	Bodal Chemicals LTD. (Unit-III)
7	Society for Clean Earth
8	Aksharchem India Ltd.
9	Care Bmw Incineration
10	Medicare Environmental Management Private Limited
11	Balaram Cements Limited
12	Gooly Chem

List of units for which EMS was undertaken during the Year

Sr. No.	Name of Client
1	Chemistar Intermediates Pvt. Ltd.
2	A.S.Industries
3	Prachin Chemical
4	Metro Enviro Chem Associates
5	Hisun Adhesives
6	Shree Ghantakarna Mahavir Cement Private
7	Arvind Ltd. (Santej Unit)
8	Arvind Limited (Naroda Unit)
9	Pioneer Foam
10	Aryan Greens
11	Mr. Ashwin Suthar
12	Raptakos Brett & Co. Ltd.
13	NARMADA BIO-CHEM LIMITED

14	Gujarat Fluorochemicals Limited
15	RISHI FIBC SOLUTIONS PVT. LTD. [EOU]
16	SHIVAM INDIA PLASTO PACK
17	UMIYA ENVIRO PROJECT LLP
18	BhagwatiEnviro Care Pvt. Ltd.
19	Bunge India Pvt. Ltd.
20	Pashupati Industries
21	Paras Industries (Somnath)
22	NARMADA BIO-CHEM LIMITED
23	Rohan Dyes & Intermediates Ltd. (Unit-I)
24	Hindustan Petroleum Corporation Limited-Kandla
25	Meghmani Novotech Private Limited
26	Odhav Green Enviro Project - CETP

CALIBRATION LABORATORY

The Calibration Laboratory at ATIRA provides calibration/testing services to various industrial segments such as textile units, machinery and accessories manufacturers, chemical units, Pharmaceutical industry, Clinical Research organizations, hospitals, pathological laboratories, dairy and paint industry, Research and Development organizations, Space Applications Center, Oil & Natural Gas Units, testing laboratories of Gujarat Pollution Control Board in Gujarat and Calibration Laboratories, Coke industries etc. ATIRA Calibration Laboratory provides single window calibration/testing service at laboratory as well as at customer's site including Specialized Instruments and Equipments.

The calibration/testing services are also availed by NABL Accredited Testing Laboratories of ATIRA namely Textile Testing, Chemical Testing/ Chemical Analytical Testing, Air Sampling and Testing laboratory, Composite and Plastic, Heat and Flame testing laboratory which covers the different parameter based instruments/equipments.

At present, this laboratory is calibrating various parameter based instruments/artifacts such as dimension and mass metrology i.e. Weights and

Weighing Balances, temperature, humidity, pressure, Volumetric, Density, Electro-Technical, Time, Rotational speed measurements, Air velocity, Illumination, Acoustics, Electrochemical etc.

Recently, a state of the art facility for calibration of various Breath Alcohol Analyzer/ Testers using electronic device with closed loop temperature control system simulates the human breath temperature precisely by maintaining the temperature of standard reference solution used for calibration/testing. The facility is utilized by Clinical Research laboratories, transporters etc.

The lab has **NABL accreditation certificate No.2824** for Calibration of **Mechanical, Thermal and Electro Technical** discipline based instruments at laboratory as well as on site on valid from **30.08.2018** to **29.08.2020**.

The laboratory is also audited by the clients as a part of vendor audit requirements for availing calibration and testing services every year.

NANO ELECTRO SPINNING

ATIRA and DRDO completed all the testing to establish the Nanofibre based filter media for face mask. This product developed jointly with DRDO was proposed by Ministry of Defense and Ministry of Textiles during this COVID pandemic, as filter media for face mask. ATIRA's silver impregnated nano fiber based filter media became the only source in India to offer 99% particulate filtration efficiency. The impregnated silver nano particles helped to achieve 99.9% bacterial filtration efficiency. Looking into the difficult situation and criticality, this filter media was selected in masks to be supplied to the PMO, DRDO and Health Ministry for their Doctors, Nurses and other front line warriors. To meet the large scale quantity requirement, ATIRA increased its production capacity by 4 times.

Further to the MOU signed last year with Arvind Ltd. for supply of Nanofibre based filter media for facemask, the commercial bulk scale supply was executed. The filter media gives 99% particulate filtration efficiency and 99.9% bacterial filtration efficiency when used in two layers.

The bulk scale trials were taken for the nano fiber based water filter media developed under the Ministry of Textile sanctioned R & D project. Water filters were made and supplied to an NGO for continuous usage. The product has been appreciated and more requirement placed by them. Similarly, during this period, industrial scale trial have also been initiated on the air filter media developed using PTFE based nano fiber application on glass fabric.

IMPLEMENTATION OF THE “SCHEME FOR PROMOTING THE USAGE OF GEOTECHNICAL TEXTILES IN NER

ATIRA – NERC is implementing the “Scheme for Promoting the Usage of Geotechnical Textiles in the North Eastern Region, Ministry of Textiles, Govt. of India. Up to March 2018, total 14 projects were completed in the states of Manipur, Meghalaya & Tripura. During the year 2019 – 2020 the centre is supervising and monitoring the 6 (six) approved ongoing projects, under the different agencies in the states of Meghalaya, Mizoram & Manipur to be completed by 31st March 2021. The projects are in different stages of implementation and are being monitored by ATIRA-NERC. The list of the ongoing projects in the different states of the North East are mentioned below

SN.	Name of the Projects	Name of the Agency
MEGHALAYA - ROAD PROJECTS		
1	Improvement, Mettalling & Black Topping of Balat -Bagli Road leading towards the proposed Border Haat, Mawsynram Division Meghalaya	Chief Engineer, NH Divn, PWD, PWDCOMPLEX, Lower Lachumiere, Shillong-793001.
MIZORAM - ROAD PROJECTS		
2	Improvement & Upgradation of Chhumkhum to Chawngte (KM 0+000 to KM 41+530) Road under PWD, Mizoram	Project Director, Project Implementation Unit, WB, Chief Engineer (Roads) Office, Public Works Department, Tuikhuahtlang, Aizawl, Mizoram-796001.

			Type of Test	Projects	No. of samples Tested
3	Improvement & Upgradation of Serchip to Sialsuk (KM 0+000 to KM 15+000) & Serchip to Buarpui (KM 0+000 to KM 40+000) Road, PWD, Mizoram.	Project Director, Project Implementation Unit, ADB, Chief Engineer (Roads) Office, Public Works Department, Tuikhuahtlang, Aizawl, Mizoram-796001	Physical	Improvement & Upgradation of Chhumkhum to Chawngte (Km 0+000 to Km 41+530) Road under PWD, Mizoram	9
			Physical	Improvement Metalling & Black Topping of Balat-Bagli Road leading towards the proposed Border Haat, Mawsynram Division, PWD, Meghalaya	6
4	Improvement & Upgradation of Champhai – Zokhawthar Road, PWD, Mizoram.	Project Director, Project Implementation Unit, WB, Chief Engineer (Roads) Office, Public Works Department, Tuikhuahtlang, Aizawl, Mizoram-796001	Physical	Improvement & Upgradation of Serchip to Sialsuk (Km 0+000 to Km 15+000) & Serchip to Buarpui (Km 0+000 to Km 40+000) Road, PWD, Mizoram	3
			Physical	Improvement of Bishnupur-Nungba Road from 0.000 - Km 89.52 (SH: Km 20.00- Km 89.52 Joujangtek to Rengpang) under PWD, Manipur	3
MANIPUR - ROAD PROJECTS					
5	Improvement of Bishnupur - Nungba Road 0.00 - 89.52 Km (SH 20.00 – 89.52 Km Joujangtek to Rengpang) under PWD in the state of Manipur	Executive Engineer, NEC II Division, PWD, Govt. of Manipur, Khoyathong, Imphal	Physical	ATIRA, Ahmedabad (Mahagaon-Yavatmal Highway Pvt Ltd)	5
6	Improvement of water reservoir at Lenglong, Tamenglong district, Manipur	Addl. Chief Engineer Directorate of Command Area Development, Directorate Complex, 2nd M.R.Gate, North AOC, Imphal, Manipur.	Physical	Improvement & Upgradation of Chaphai - Zokhawthar Road, PWD, Mizoram	12
			Physical	ATIRA, Ahmedabad	4
			Physical	ATIRA, Ahmedabad	6
			Physical	ATIRA, Ahmedabad	9

CHEMISTRY

Eco lab was revived with the financial support of Govt. of Gujarat. The key objective was to offer the customers a one stop solution at ATIRA for all their testing be it physical, mechanical, chemical, environmental, electrical and heat & flame for technical textile, composites, textile, and dyes & auxiliaries. Sample testing was carried out on GC, GCMS and HPLC. As part of up gradation of lab, UV-VIS Spectrophotometer has been procured and

Testing

During 2019 – 2020, Geotechnical Textile samples of the various approved projects under the Geotech Scheme of MOT, GOI along with samples received from ATIRA, Ahmedabad, were tested in the Geotech Lab of the centre. All the tests carried out in the centre were physical tests. The detailed list of the testing carried out is listed below.

installed while order has been placed for LCMS and this would ensure the industry to get quicker, accurate and unbiased results of their samples on these instruments.

POWERLOOM SERVICE CENTRE

Power loom Service Centre of ATRA Ahmedabad is involved in various activities like Training, Testing, Consultation, organizing seminar/ awareness programs in cluster on various schemes of i-Power Tex India of GOI , Ministry of Textiles for the development of power loom industry. During thw year 7 entrepreneurs were imparted training on Basics of Textiles. Power loom service centre had arranged one awareness program at Memco area of cluster. During the year, 73 yarn and fabric samples were tested. Besides, technical officers of PSC,ATIRA paid 102 A-TUF visits for TUF beneficiary units at Ahmedabad, Kadi, Chatral & Rajkot region along with officers of Textile commissioner Office. Also Officers engaged in 31 Special JIT for RR-TUF beneficiary units for which 60 man days were spent. PSC officers visited more than 60 units for registration/renew of power loom workers under converged Group Insurance Scheme (CGIS). In all, 1066 registration were carried out during year.

Dholka Powerloom Service Centre of ATIRA involved in similar activities like Training of loom operator / Jobber, testing of yarn and technical consultation for powerloom industry. During the year 54 testing of yarn samples carried out. 3 awareness programs were arranged on awareness of i-Power Tex India schemes in various area of Dholka Cluster. 5 units consulted for trouble shooting of damage in different fabric sort due to improper mechanical settings. Officers had paid visit for A-TUF JIT in 12 units. New registration/ renewal of 903 powerloom workers carried out under CGIS scheme.

ATIRA Powerloom Service Centre at Indore also engaged in similar activities like loom operator/Jobber training, testing of yarn and fabric samples and technical consultation at Indore , Ujjain, Mandsaur and other nearby areas of the cluster. During the year, 86 yarn an sample testing were done by centre. Besides officers paid visits in 9 units for ATUF JIT as well as 40 units were visited for special JIT for RR TUF. New registration/renew under CGIS scheme carried out for 904 power loom workers in the cluster.

TEXTILE TESTING LAB

During the year the Textile Testing Lab continued to work towards customer satisfaction while maintaining accuracy of results.

During this period, ATIRA cotton lab took a leap and established its credibility by being empanelled by McX (Multi Commodity Exchange) and Bombay Stock Exchange (BSE) as their primary and independent assayer. On the other hand, Cotton Corporation of India (CCI) too has approved ATIRA lab for its cotton testing activity. As an initiative to offer wider range of solutions, the Lab has started the service of drawing cotton samples from bales. McX has availed this service whenever it required neutral third party results.

For the fabric testing activity a number of new customers have been added and continued to avail the testing service throughout the year. Besides conventional testing of fabric and garment functional testing facility such as flammability tests, air and water permeability tests etc. were also carried out for many units. In Geotextiles special tests of wash and light fastness have widely been accepted and utilized.

Due to the support from the local textile and technical textile industry, in the month of march, Government of Gujarat declared ATIRA lab as its approved lab for mask and PPE Kit testing.

ATIRA's Geotextile testing lab has also been accepted and approved by various agencies for their neutral third party testing.

Following new tests have been added in the laboratory during the year:

- Resistance to Oxidation – ISO : 12447
- Resistance to Hydrolysis – EN ISO 13438
- Resistance to Chemical – EN ISO 13430
- Wrinkle Recovery
- Acidity / Alkalinity in mask
- Reducing oxidisables

- Impact of water penetration
- Junction Strength of Geogrids
- Radial Stiffness for Geogrids

CHEMICAL TECHNOLOGY DIVISION.

Fabric Defect Analysis: During the year 550 samples were received for the analysis of defect. Samples were analyzed, reasons for occurrence of defect were identified. Suggestions were given to improve the defective fabric. Many a times samples were received from exporter of knitting yarn and knitted fabric. Solutions to solve the fabric appearance problems are given. This activity has helped yarn exporters in a big way. Suitable solutions were given for proper processing of knitted fabric. Yarn manufacturers are regularly giving sample for analysis of barre defect. Garment, Weaving and processing defects in the fabrics are analyzed and methods to improve defect in the area are suggested and proper way of garment processing are also suggested.

Certification of samples received from Custom Dept.: Samples are regularly received from custom department for certification of quality parameter mentioned in import /export documents. Report is submitted in sealed cover to custom department.

Performance and testing of the processing chemicals: Processing units and chemical manufacturers are submitting samples of chemicals (125 samples) for performance testing of chemical sample. These chemicals are tested by treating the fabric with chemicals and evaluating the properties of treated fabrics. All the tests are carried out in view of actual usages of particular chemical. This testing facility is utilized for proper selection of chemical and costs comparison.

Testing of Dyestuffs for exports.: At ATIRA Dyestuff standards are maintained for some foreign importers of color. Indian color samples are tested against the standard of the company and test reports are given. Based on these reports importer takes decision about the quality of dyestuff.

Preparation of composite soiled stripe.: C.T.D is producing composite soiled strip set for testing of washing machine performance evaluation. These

stripe set are prepared as per IS 5785-1976. ATIRA is also supplying stitched standard garment and dummy fabric for loading of washing machine for evaluation of washing machine performance.

Lycra containing fabric processing : Many defective fabric and stitched garments were received at ATIRA for analysis. After detailed study, suggestions were given to take necessary action & care during processing of fabric , processing of garment, garment stitching , drying and washing.

Consultancy: Study of Mercerization Process and Caustic Recovery

Mergerization is most important process for cotton fabric dyeing.

In mergerization process cotton fabric is padded with 250 gm per liter caustic under tension on mergerization machine. This padded caustic is removed from the fabric in subsequent washing at mergerization machine. This removed caustic is re concentrated to required concentration and reused for mergerization.

Units having caustic recovery plant use about 6 to 8 kgs of fresh caustic per 100 kgs of cloth for mergerization. Units without caustic recovery plant use 20 to 25 kgs of caustic for same production. Unrecovered caustic is washed and cause heavy pollution of effluent.

ATIRA is regularly giving consultancy services to industry for proper use and recovery of caustic soda in mergerization process. Production of caustic soda is power intensive. For production of each kgs of caustic almost 4 units of electrical power is consumed.

Caustic recovery should be made mandatory for cotton fabric producing units. Pollution Control Board can force industry to instal C.R.P plants compulsory. This will save lot of fresh caustic and reduce pollution load on effluent treatment plant.

Training of Young Industrialist and Technicians from Industry.

C.T.D is regularly conducting training program for young industrialist and shopfloor workers and technicians of processing units. The training is given at ATIRA and it is followed by in-house industrial training.

During the year four trainees from Kenya visited ATIRA for 15 days for training. Theoretical and practical training in all the aspects of processing was provided. All the queries about their processing problems were discussed. The training was followed with mill visit to show modern Indian process house. The participants were highly satisfied with our training. They are in constant touch with our staff for further clarifications of their technical problems.

INCUBATION CENTRE FOR TECHNICAL TEXTILES

During the year the centre has developed various prototypes for industry such as scrim fabric, filter fabric, glass fabric, ventilator fabric etc

Developed carbon fabric on rigid rapier 190cm Dornier m/c with texmer creel for development of composites at ATIRA.

The centre has developed 10 prototypes in year 2020.

The centre has trained students from engineering college and is also engaged in entrepreneurs training in technical textiles.

CL CENTRE FOR MANAGEMENT

- Techno economic feasibility study was conducted for two composite mills, one at Gujarat another at Madhya Pradesh
- Valuation of Readymade Garments was carried out for DRI, M.P

- Technical Textiles certification as per Gujarat Textile policy for 5 units
- Certification of usage of solar power in powerloom sector for 2 units

LIBRARY AND NICTAS

(A) HIGHLIGHTS OF LIBRARY

- ATIRA Library has rich resources of 46,200 books and bound volumes in the Textile and Allied areas.
- About 50 books, bound volumes of journals were issued during the year.
- About 15 members are using the library as individual members.

(B) NICTAS AT ATIRA

During the year, NICTAS provided the following services to its users:

- 55 Standards were procured on demand.
- 3 articles procured from national and International sources.
- 3 issues of TEXINCON for the year 2019 were published.
- A total 2 on-line searches were carried out for one user, under NACID, through its specialized network.

INDEPENDENT AUDITORS' REPORT

To the members of Ahmedabad Textile Industry's Research Association

Report on the Audit of the Financial Statements

Opinion

We have audited the accompanying financial statements of **AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD ("ATIRA")** which comprise the Balance Sheet as at March 31, 2020, and the Income and Expenditure Account for the year then ended and a summary of significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, the financial statements give a true and fair view in conformity with the accounting principles generally accepted in India of the state of affairs of ATIRA as at 31st March, 2020 and its deficit for the year ended on that date.

Basis for Opinion

We conducted our audit of the financial statements in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India (ICAI). Our responsibilities under those Standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of ATIRA in accordance with the Code of Ethics issued by ICAI. We have fulfilled our other ethical responsibilities in accordance with these requirements and the ICAI's Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of ATIRA in accordance with the accounting principles generally accepted in India, including the applicable Accounting Standards. This responsibility also includes maintenance of adequate accounting records for safeguarding the assets of ATIRA and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to ATIRA's preparation of the financial statements

that give a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on whether ATIRA has in place an adequate internal financial controls system over financial reporting and the operating effectiveness of such controls. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

For **Sorab S. Engineer & Co.**
Firm Registration No. 110417W
Chartered Accountants

CA. Chokshi Shreyas B.
Partner
Membership No. 100892
UDIN: 20100892AAAA
Ahmedabad
September 30, 2020

**AHMEDABAD TEXTILE INDUSTRY'S
INCOME AND EXPENDITURE ACCOUNT**

2019 Rs.	EXPENDITURE	Rs.	2020 Rs.
	Employees' Emoluments		
35,916,247	Salary and Allowances	37,295,415	
2,675,173	P.F. and Pension Scheme Contributions	2,925,411	
1,225,478	Additional Contribution to Provident Fund	-	
339,800	Medical Benefits	303,752	
3,831,594	Retirement Benefits	2,971,194	
476,429	Bonus	369,951	
28,173	Staff Amenities	83,470	
126,191	Contribution to ATIRA Staff Insurance Fund	-	
168,782	Employees' Deposit Linked Insurance Scheme	160,534	
92,973	Leave Travel Concession	58,261	
<u>44,880,840</u>			44,167,988
	Travelling & Conveyance Expenses		
1,469,858	Travelling Expenses (Net)	1,389,265	
167,899	Conveyance Expenses	138,067	
85,238	Vehicle Expenses	292,821	
<u>1,722,995</u>			1,820,153
	Repairs & Maintenance		
1,098,259	Building & Estate Maintenance	1,004,897	
1,258,406	Repairs & Maintenance - Others	1,033,422	
-	Auditorium Maintenance	50,556	
<u>2,356,665</u>			2,088,875
	Laboratory Expenses		
246,222	Accreditation of Lab. Expenses	102,550	
108,840	Calibration Expenses	194,305	
1,176,528	FIC Laboratory Expenses	1,671,133	
1,471,940	Guwahati Laboratory Expenses	841,409	
5,668,032	Infusion Laboratory Expenses	5,119,530	
1,880,685	Incubation Centre Expenses	485,251	
17,226,630	Laboratory, Workshop and Pilot Mill Expenses	8,584,128	
<u>27,778,877</u>			16,998,306
	Library & Journal Expenses		
154,101	Library Journals, Publications, Books Expenses		180,458
	Administrative Expenses		
100,000	Audit Fees	100,000	
5,476,668	Electrical charges (Net)	5,719,734	
200,509	Forms and Stationery	146,407	
186,330	Insurance on Building , Machinery etc.	315,792	
724,297	Legal and Professional Fees	1,589,075	
586,752	Miscellaneous Expenses	1,075,689	
45,910	Promotion & Publicity	103,856	
1,236,601	Rates and Taxes	1,471,456	
559,192	Security Expenses	478,015	
329,455	Conference and Seminar Expenses (Net)	44,101	
3,194,542	Service charges	4,549,069	
2,019,388	Provision for Doubtful Debts		
-	Sundry Dr./Cr. Balance written off (Net)	434,664	
<u>14,659,644</u>			16,027,858
<u>91,553,122</u>	Total C/F		<u>81,283,638</u>

RESEARCH ASSOCIATION, AHMEDABAD 380 015
FOR THE YEAR ENDING MARCH 31, 2020

2019 Rs.	INCOME	Rs.	2020 Rs.
	Grant & Contribution		
	Non-Plan Grant from Ministry of Textiles		
8,000,000	Salary Grant	9,000,000	
2,000,000	Recurring Grant	<u>2,000,000</u>	
<u>10,000,000</u>			11,000,000
1,560,000	Contribution from Industries		1,760,000
	Earned Income :		
30,045,456	Testing Fees	37,531,674	
2,946,069	Calibration Service & Incubation Income	2,406,862	
49,647,956	Sponsored work Income	<u>53,294,897</u>	
<u>82,639,481</u>			93,233,433
	Salary/Overheads Recovered from Sponsored Projects & Services		
14,787,900	Overheads on Sponsored Projects		2,843,550
	Interest		
6,634,980	Interest income	7,520,702	
267,933	Less: Transferred to Various Funds	-	
<u>6,367,047</u>		<u>7,520,702</u>	7,520,702
	Other Income		
3,320,023	Miscellaneous Income	3,970,828	
514,196	Sundry Dr./Cr. Balance written off (Net)	-	
23,732	Staff Quarters Income	<u>55,916</u>	
<u>3,857,951</u>			4,026,744
-	Transfer from Fund		
	Atira Development Fund		32,871,561
<u><u>119,212,379</u></u>	Total C/F		<u><u>153,255,990</u></u>

**AHMEDABAD TEXTILE INDUSTRY'S
INCOME AND EXPENDITURE ACCOUNT**

2019 Rs.	EXPENDITURE	Rs.	2020 Rs.
91,553,122		Total B/F	81,283,638
	Communication Expenses		
148,841	Postage and Telegrams (Net)	137,210	
306,935	Telephones & Fax charges	215,461	
<u>455,776</u>			352,671
	Finance Cost		
12,513	Bank Charges	35,005	
159,555	Interest on Bank Overdraft	12,539	
<u>172,068</u>			47,544
2,013,051	Depreciation		1,534,192
20,856,175	Expenditure on sponsored projects met out of ATIRA Funds		70,037,945
	Transfer to Fund		
4,162,187	Atira Development Fund		-
	Surplus		

119,212,379

TOTAL :

153,255,990

For Notes forming part of Accounts refer schedule 'K'

As per our report of even date

For, **Sorab S Engineer & Co.**
Firm Registration No.110417W
Chartered Accountants

Place : Ahmedabad
Date : 30/09/2020

Pragnesh Shah
Director

Sanjay Lalbhai
Members of the
Council Of Administration

CA Chokshi Shreyas B.
Partner
Membership No. 100892

**RESEARCH ASSOCIATION, AHMEDABAD 380 015
FOR THE YEAR ENDING MARCH 31, 2020**

2019 Rs.	INCOME	Rs.	2020 Rs.
119,212,379		Total B/F	153,255,990

119,212,379

TOTAL :

153,255,990

**AHMEDABAD TEXTILE INDUSTRY'S
BALANCE SHEET AS**

2019 Rs.	FUNDS & LIABILITIES	SCHEDULE NO.	2020 Rs.
733,778,184	CAPITAL FUNDS	A	735,709,823
292,320,287	OTHER EARMARKED FUNDS	B	260,982,918
41,174,478	SPONSORED PROJECTS	C	31,676,548
2,782,926	BANK OVERDRAFT	—	
49,457,648	CURRENT LIABILITIES & PROVISIONS	J	44,052,479

1,119,513,523

TOTAL :

1,072,421,768

For Notes forming part of Accounts refer schedule 'K'

As per our report of even date

Place : Ahmedabad
Date : 30/09/2020

Pragnesh Shah
Director

Sanjay Lalbhai
Members of the
Council Of Administration

For, **Sorab S Engineer & Co.**
Firm Registration No.110417W
Chartered Accountants

CA Chokshi Shreyas B.
Partner
Membership No. 100892

**RESEARCH ASSOCIATION, AHMEDABAD 380 015
AT MARCH 31, 2020**

2019 Rs.	PROPERTIES & ASSETS	SCHEDULE NO.	2020 Rs.
29,408,075	IMMOVABLE PROPERTIES	D	29,408,075
—	CAPITAL WORK IN PROGRESS		56,000
735,271,032	MOVABLE PROPERTIES	E	738,558,841
89,510,074	INVESTMENTS	F	113,073,009
4,094,717	CASH AND BANK BALANCES	G	4,430,743
16,838,976	SUNDRY DEBTORS	H	9,182,425
44,803,918	OTHER CURRENT ASSETS, LOANS & ADVANCES	I	48,123,644
199,586,731	SPONSORED PROJECTS	C	129,589,031

1,119,513,523

TOTAL :

1,072,421,768

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015

SCHEDULE - 'A' : CAPITAL FUNDS

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	DEDUCTIONS RS.	PARTICULARS	AS AT 31-3-2020 Rs.
29,063,445	1) Industry's Capital Contribution Account				29,063,445
5,845,595	2) Contribution for Capital Expenditure from the Government	-	-		5,845,595
16,700,977	3) Fund for ATIRA-AMA Centre Building	-	-		16,700,977
345,000	4) Capital grant and contribution for Lab. Building	-	-		345,000
681,823,167	5) Fund for capital exp. out of grant and contributions from Govt. and various other sources	1,931,639	-	Fund created during the year	683,754,806
733,778,184	TOTAL :	1,931,639	-		735,709,823
733,141,627	Previous Year	636,557	-		733,778,184

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'B' : OTHER EARMARKED FUNDS

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	PARTICULARS	DEDUCTIONS RS.	AS AT 31-3-2020 Rs.
40,799,581	1) Depreciation Fund	1,534,192	Depreciation Provided during the year	-	42,333,773
2,356,923	2) ATIRA Staff Insurance Fund	-		-	2,356,923
560,587	3) Staff Welfare Fund	-		-	560,587
1,000,000	4) Fund for Chimanlal Lalbhai Centre for Management Studies	-		-	1,000,000
247,603,196	5) Atira Development Fund	-	Transfer to Income & Expenditure Account	32,871,561	214,731,635
292,320,287	TOTAL :	1,534,192		32,871,561	260,982,918
285,997,346	Previous Year	6,322,941		-	292,320,287

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE 'C' : SPONSORED PROJECTS

Sr. No.	Account Head	Credit/ (Debit) Balance as at 01-04-2019	Grant received/ (Refund) during the year	Interest/ other income received during the year	Expenditure incurred during the year		Transfer to Income & Exp. Account	Credit / (Debit) Balance as at 31-03-2020
					Rs.	Rs.		
Recurring Capital								
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A) Projects sponsored by Ministry of Textiles								
	(MT-60) Development of PTFE nano fibre-based media for filtration under corrosive/high temperature condition	(2,412,000)						(2,412,000)
	(MT-62) Textile Reinforced Precast Panel (Capital)	13,881,763						13,881,763
	(MT-63) Development Of Nano-Fibre Based Water Filter To Get Safe And Pure Drinking Water For Human beings	(1,680,000)					69,997,700	(1,680,000)
	(ISDS)-Integrated Skill Development Scheme	(193,540,731)						(123,543,031)
	SMC manufacturing using jute as the major reinforcing fibre & compression moulding	(1,954,000)						(1,954,000)
	Creating a short film on composite segment for promoting usage and application of technical textiles	167,881			5,825			162,056
	Scheme for promoting usage of Geotechnical Textiles in North Eastern Region	15,496,894			5,274,537			10,222,357
	Scheme for promoting usage of Geotechnical Textiles in North Eastern Region (Capital)	1,531,639				1,531,639		-
B) Power loom Service Centres at :								
	Ahmedabad — Recurring	-	1,700,000	49,600	1,769,136		19,536	-
	Dholka — Recurring	-	1,200,000	44,063	1,261,674		17,611	-
	Indore — Recurring	-	1,500,000	60,181	1,562,019		1,838	-
	PSC Swachcha Bharat	38,191			39,451		1,260	-
C) Projects sponsored by Ministry of Science and Technology								
	Nissat Access Centre to International Database Services at ATIRA (NACID)	133,187						133,187
	National Information centre for Textiles & Allied Subjects (NICTAS)	2,298,245			1,629,264			668,981
D) Projects sponsored by Government of Gujarat								
	(GG-41) Upgra./Strength. & Recognition of Sophist. Instru. Lab. for various regulatory testing related to Eco-friendliness/Zero Discharge of Hazard. Chemicals for the benefit of Textile/Chemical/Dyes & Intermediates /Footwear/Leather/Paper/Pharma. Ind.	7,620,000			618,474	400,000		6,601,526
Total C/F		(158,418,931)	4,400,000	153,844	12,160,380	1,931,639	70,037,945	(97,919,161)

(Contd...)

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE -'C' : SPONSORED PROJECTS (Contd.)

Sr. No.	Account Head	Credit/ (Debit) Balance as at 01-04-2019	Grant received/ (Refund) during the year	Interest/ other income received during the year	Expenditure incurred during the year	Transfer to Income & Exp. Account	Credit / (Debit) Balance as at 31-03-2020
	Total B/F	(158,418,931)	4,400,000	153,844	12,160,380	70,037,945	(97,919,161)
E) Internal Projects							
	(IND-10) Geographical Indication (GI) Registration of Hand Woven Items of Gujarat - Mashroo Cloth of Patan & Mandvi (Kutch)	6,678					6,678
	Total	(158,412,253)	4,400,000	153,844	12,160,380	70,037,945	(97,912,483)
	Previous Year	(165,105,189)	12,020,000	458,156	26,004,838	20,856,175	(158,412,253)
	Breakup of balance as at	31.03.2020	31.03.2019				
	Debit balances	(129,589,031)	(199,586,731)				
	Credit balances	31,676,548	41,174,478				
		(97,912,483)	(158,412,253)				

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'D' : IMMOVABLE PROPERTIES

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	DEDUCTIONS RS.	AS AT 31-3-2020 Rs.
679,056	1) Land	—	—	679,056
9,501,910	2) Laboratory Building & Roads	—	—	9,501,910
2,526,132	3) Staff Quarters	—	—	2,526,132
16,700,977	4) ATIRA-AMA Building	—	—	16,700,977
<u>29,408,075</u>	Total	<u>—</u>	<u>—</u>	<u>29,408,075</u>
<u>29,408,075</u>	Previous Year	<u>—</u>	<u>—</u>	<u>29,408,075</u>

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'E' : MOVABLE PROPERTIES

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	DEDUCTIONS RS.	AS AT 31-3-2020 Rs.
	Out of own funds			
5,136,096	1) Machinery	680,018		5,816,114
13,385,004	2) Laboratory Apparatus & Equipments			13,385,004
83,992	3) IBM Punching Machines			83,992
519,369	4) Workshop Equipment			519,369
4,559,439	5) Furniture and Dead Stock			4,559,439
3,119,902	6) Library Books			3,119,902
299,284	7) Typewriters and Calculating Machines			299,284
3,699,685	8) Vehicles	16,500		3,716,185
3,035,900	9) Computers and peripherals	56,852		3,092,752
710,160	10) Closed Circuit TV			710,160
77,017	11) Mobile instrument			77,017
70,400	12) EPABX System			70,400
1,419,368	13) Equipment for IONO-OXY Plant			1,419,368
9,439,803	14) Focus Incubation Centre Machinery			9,439,803
4,181,410	15) Infusion Lab Machinery	190,000		4,371,410
—	16) Air Conditioner & Coolers	36,210		36,210
—	17) Water Cooler	68,000		68,000
49,736,829	Total - A	1,047,560	—	50,784,409
	Out of grant and contribution from Govt. & Other sources			
7,688,330	18) Eco-lab Equipt. purchased out of grant from MOT			7,688,330
7,547,213	19) Equipt. for upgradation of Eco-Lab at ARC, Indore			7,547,213
579,813	20) Motor car out of IDTCP			579,813
773,732	21) Capital exp. for modernisation of PLSC-A'bad			773,732
4,730,220	22) Capital exp. for CATD Centre at A'bad (Includes Rs.5,220/- ATIRA's contribution)			4,730,220
2,474,862	23) Capital exp. for CATD centre at Indore			2,474,862
23,794,170	Total C/F	—	—	23,794,170

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'E' : MOVABLE PROPERTIES (Contd.)

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	DEDUCTIONS RS.	AS AT 31-3-2020 Rs.
23,794,170	Total B/F	-	-	23,794,170
1,825,762	24) Capital exp. for upgrd. of Lab. (Textile committee) '(Includes Rs. 1,45,593/- ATIRA's contribution)			1,825,762
8,085,160	25) Capital exp. for Calibration Lab. at A'bad (GG-01)			8,085,160
2,788,522	26) Capital exp. for Gng. Service Centre at A'bad (GG-02)			2,788,522
4,359,671	27) Capital exp. for Information Tech. Centre (GG-06)			4,359,671
1,591,049	28) Capital exp. for Minor Equpt. for PLSC - A'bad			1,591,049
593,530	29) Capital exp. For Devlpg. Rapier loom (GG-05)			593,530
1,321,384	30) Capital exp. For Minor Equpt. For Eco-Lab.-A'Bad			1,321,384
2,330,817	31) Capital Exp. For Modrnisation of PLSC-Indore (Includes Rs.850/- ATIRA's contribution)			2,330,817
250,000	32) Capital Exp. for Infrastructure for PLSC-Indore			250,000
121,834	33) Capital exp. For proj. Design & Develp. Of electronic aid for quick identification of mechanical deficiencies in ring frame to help increase yarn productivity (DIT-01)			121,834
2,750	34) Capital exp. for proj. DRDE-06 Devlpt of bio-degradable packing film (DRDE-06)			2,750
1,093,394	35) Capital exp. for proj. Indigenous development of IT based fabric pattern making, marking & cutting system (DIT-02)			1,093,394
774,357	36) Capital exp. For ginning cluster Develp. Programme (GG-02A)			774,357
146,516	37) Capital exp. for Training progrm. for upgrd./ refreshing the technical & other skills of weavers jobbers & owners of power-loom units at Ahmedabad (GG-10)			146,516
8,233	38) Capital exp. for Swiss project-CT assessment			8,233
4,007,083	39) Capital exp. for expansion of calibration laboratory at ATIRA (GG-01A)			4,007,083
7,116,643	40) Capital exp. for SSI-HVI-1000			7,116,643
33,452,292	41) Capital exp. for Centre of Excellence for Technical Textiles (GG-23)			33,452,292
321,447	42) Capital exp. for PLSC-Dholka Modernisation			321,447
19,758,373	43) Capital exp. for Centre of Excellence in Geo- Textile (MT-48)			19,758,373
113,742,987	Total C/F	-	-	113,742,987

(Contd...)

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'E' : MOVABLE PROPERTIES (Contd.)

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	DEDUCTIONS RS.	AS AT 31-3-2020 Rs.
113,742,987	Total B/F	-	-	113,742,987
510,500	44) Capital exp. for PLSC-Ahmedabad			510,500
361,803	45) Capital exp. for project Skill Devlpt. Course for Fresh Powerloom Weavers & Jobbers for Non-auto, Auto & Shuttle-less Looms (GG-24)			361,803
32,013,250	46) Capital Exp. For Setting up of ATIRA Geo-Synthetic Testing Laboratory (GG-27)			32,013,250
31,550	47) Capital Exp. For Design Modifications to Modern Ring Frame to Reduce Yarn Hairiness (GG-33)			31,550
186,319	48) Capital Exp. For development of 3D Hollow Woven Preforms for Mobiltech Applications (GG-37)			186,319
10,791,676	49) Capital exp. for project enhancement of Cotton Seed Oil Recovery adopting German PEFT Technology (MT-51)			10,791,676
2,441,703	50) Capital exp. for projects sponsored by MOT			2,441,703
1,758,275	51) Capital exp. for Project Indigenous Development of Automatic Multilayer Garment Cutting Machine (MT-52)			1,758,275
5,891,440	52) Capital exp. for Project Spinning Fire Retardant Fibre Blends on Cotton System (MT-53)			5,891,440
3,244,598	53) Capital exp. For evolve construction related design as well As environmental design parameters for both woven & non-woven geo synthetics (MT-54)			3,244,598
8,897,198	54) Capital exp for Development of Nano-fibre based Textiles (MT-55)			8,897,198
13,876,661	55) Capital exp for Textile Dyeing an efforts towards Sustainable & Cleaner , Eco friendly technology (MT-57)			13,876,661
83,786,216	56) Capital exp. for Integrated Skill Development Scheme (ISDS)			83,786,216
205,836,953	57) Capital exp. for Centre of Excellence in Composites	-		205,836,953
609,471	58) Capital exp. for upgradation of CAD Centre at Indore			609,471
265,107	59) Capital exp. for Novel Wound Dressing Material with Synergistic Effects by Harnessing Properties of Antibiotics and Native Herbals for Tissue Regeneration and Protection (DRL-02)			265,107
484,245,707	Total C/F	-	-	484,245,707

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'E' : MOVABLE PROPERTIES (Contd.)

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	ADDITIONS RS.	DEDUCTIONS RS.	AS AT 31-3-2020 Rs.
484,245,707	Total B/F	—	—	484,245,707
231,437	60) Capital exp. for Development of Permethrim / Herbal Oil-based Masquito Repellent Formulation for application on Army Clothing (DRL-01)			231,437
103,603,184	61) Capital exp for establishing Incubation Centre (GG-38) (Includes Rs. 36,23,184/- Atira's Contribution)			103,603,184
22,300,000	62) Capital exp. for Creation of Pilot Plant facility for Nano-Textiles especially in area of filtration (GG-39)			22,300,000
2,305,515	63) Capital exp. for Expansion of Calibration Laboratory (Module II) (GG-01-B)			2,305,515
54,609	64) Capital exp. for Bio preparation Technology : Enhanced sustainability in cotton & cottn containing textile processing (MT 56)			54,609
3,450	65) Capital Exp. For PSC- Dholka			3,450
144,485	66) Capital Exp. For PSC- Indore			144,485
2,975,981	67) Capital Exp. For Development of PTFE nano fibre-based media for filtration under corrosive/high tempeature condition			2,975,981
11,024,083	68) Capital Exp. For Development of protective textiles for protection against electromagnetic radiations (MT-59)			11,024,083
24,768,361	69) Capital Exp for Sch for promoting usage of Geotechnical Textiles in NER (Includes Rs. 3,08,590/- Atira's Contribution)	1,840,229		26,608,590
758,441	70) Capital Exp. For Integrated Scheme for Powerloom Sector Development for Modernisation/upgradation of PSCs			758,441
558,237	71) Capital Exp. For Textile Reinforce Precast Panel (MT-62)			558,237
32,560,713	72) Capital Exp. For Focus Incubation Centre (FIC)			32,560,713
-	73) Capital Exp. For Upgra./Strengthening. & Recogn. of Sophist. Instru. Lab. for various regul. testing rel. to Eco-friendliness/Zero Discharge of Hazard. Chem. for the benefit of Textile/Chem./Dyes & Intermed/Footwear/Leather/Paper/Pharma Ind. (GG-41)	400,000		400,000
685,534,203	Total - B	2,240,229	—	687,774,432
735,271,032	Grand Total (A+B)	3,287,809	—	738,558,841
720,542,185	Previous Year	14,728,847	—	735,271,032

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'F' : INVESTMENTS

AS AT 31-03-2019 Rs.	ACCOUNT HEAD	AS AT 31-03-2020 Rs.
	i) General Fund Investments	
10,068,027	a) FDR with Bank of India	7,600,282
33,142,047	b) FDR with HDFC Bank	48,979,765
38,100,000	c) FDR with Kotak Bank	48,292,962
<u>81,310,074</u>		<u>104,873,009</u>
	ii) C. L. Centre Fund Investments	
525,000	a) FDR with HDFC Bank	525,000
475,000	b) FDR with Bank of India	475,000
<u>1,000,000</u>		<u>1,000,000</u>
	iii) Investments in Securities	
1,000,000	a) 9.90 % Punjab State Industrial Development Corporation Bond	1,000,000
1,000,000	b) Aadhar Housing Finance 2021 Bonds	1,000,000
5,200,000	c) 9.80% Jaipur Vidhyut Vitaran Nigam	5,200,000
<u>7,200,000</u>		<u>7,200,000</u>
<u>89,510,074</u>		<u>113,073,009</u>
	: Total :	

8 AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'G' : CASH AND BANK BALANCES

AS AT 31-03-2019 Rs.	PARTICULARS	AS AT 31-03-2020 Rs.
81,810	CASH ON HAND	37,579
	BANK BALANCES	
183,041	In Current Account	179,154
3,829,866	In Savings Account	4,214,010
4,094,717	: Total :	4,430,743

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE -'H' : SUNDRY DEBTORS

	AS AT	AS AT
31-03-2019		31-03-2020
Rs.		Rs.
16,838,976	Considered Good	9,182,425
2,019,388	Considered Doubtful	1,918,816
(2,019,388)	Less: Provision for Doubtful Debts	(1,918,816)
<u>16,838,976</u>	: Total :	<u>9,182,425</u>

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'I' : OTHER CURRENT ASSET, LOANS & ADVANCES

	AS AT 31-03-2019 Rs.	AS AT 31-03-2020 Rs.
<u>LOANS TO STAFF</u>		
For Vehicle	35,858	21,158
For Food grains	53,470	49,550
For Festivals	7,050	2,850
	96,378	73,558
<u>ADVANCES</u>		
For Recurring expenses	1,193,626	923,072
Security Deposits recoverable	690,749	644,917
For Projects, Training Programme & Workshop etc.	828,500	-
Other Advances	1,317,915	1,909,461
	4,030,790	3,477,450
<u>INCOME TAX PAID AND TDS</u>		
Tax deducted at source	23,463,986	27,754,616
Income tax Paid for Appeal	14,001,250	14,002,250
	37,465,236	41,756,866
<u>INCOME RECEIVABLE</u>		
Interest Accrued	3,211,514	2,815,770
	3,211,514	2,815,770
	44,803,918	48,123,644
: Total :		

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD 380 015
SCHEDULE - 'J' : CURRENT LIABILITIES & PROVISIONS

AS AT 31-03-2019 Rs.		AS AT 31-03-2020 Rs.
17,294,037	Provision for Gratuity	16,380,246
7,873,477	Provision for Leave Salary	7,557,401
1,937,608	Statutory liabilities	1,994,789
11,744,753	Sundry Creditors	8,712,691
2,147,478	Advance received for Services	2,096,064
7,541,695	Other liabilities	6,372,688
978,600	Security Deposits	938,600
49,457,648		44,052,479
	: Total :	

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD-380 015
SCHEDULE 'K' – NOTES FORMING PART OF ACCOUNTS FOR THE YEAR 2019-2020

I. SIGNIFICANT ACCOUNTING POLICIES

- 1) ACCOUNTING CONVENTION**
The financial statements are prepared on the basis of historical cost convention and on the accrual basis of accounting.
- 2) INVESTMENTS**
Long Term Investments are carried at cost, less provision for permanent diminution in the value of investments, if any.
- 3) PROPERTY, PLANT & EQUIPMENT**
Property, Plant & Equipment (PPE) are stated at cost of acquisition inclusive of freight, duties and taxes and incidental and direct expenses related to acquisition.
- 4) DEPRECIATION**
Depreciation on PPE acquired out of own fund is provided as per Straight Line Method at the following rates:

Quarters & Roads	1.63%
Furniture & Dead Stock, Library Books	6.33%
Mobile Phones , C.C.T.V., EPABX	20.00%
Building	3.34%
Motor Car	9.50%
Machinery, Lab. & Workshop equipment, typewriters, etc.	4.75%
Computers	16.21%

 No Depreciation has been provided on PPE acquired out of Project funds.
- 5) GOVERNMENT GRANTS**
Government grants are accounted on the basis of sanction from Government.
- 6) FOREIGN CURRENCY TRANSACTIONS**
Transactions denominated in foreign currency are accounted at the exchange rate prevailing on the date of the transaction.
- 7) REVENUE RECOGNITION**
Testing Fees and Interest Income are accounted on Accrual basis.
- 8) RETIREMENT BENEFITS**
Gratuity and leave encashment are provided on the basis of actuarial valuation.

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, AHMEDABAD-380 015
SCHEDULE 'K' – NOTES FORMING PART OF ACCOUNTS FOR THE YEAR 2019-2020 (Contd.)

II. CURRENT ASSETS, LOANS AND ADVANCES

In the opinion of the Management, the current assets, loans and advances have a value on realization in the ordinary course of business, equal at least to the aggregate amount shown in the Balance Sheet.

III. TAXATION

In view of there being no taxable income under Income Tax Act 1961, no provision for income tax has been considered necessary.

IV. The Association enjoys overdraft facility with Bank of India against which FDRs for Rs. 60,00,000/- (previous year Rs. 60,00,000/-) have been pledged.

V. Tax deduction at source on interest & service income is Rs. 34,21,627/- ;(Previous year Rs. 30,03,300/-)

VI. Disputed demand in respect of Income Tax is Rs. 18,48,11,670/-;(Previous year Rs. 201,796,524/-)

VII. Capital Commitment Rs. Nil (Previous year Rs. NIL)

VIII. Corresponding figures for the previous year have been re-grouped/re-arranged, wherever necessary to make them comparable with those of current year.

Signatures to Schedules "A to K"

As per our report of even date

For, **Sorab S Engineer & Co.**
Firm Registration No.110417W
Chartered Accountants

Sanjay Lalbhai
Members of the Council
of Administration

CA Chokshi Shreyas B.
Partner
Membership No.100892

Place : Ahmedabad
Date : 30/09/2020

ANNEXURES

ANNEXURE I

TEXINCON

(TEXtile Information CONdensed) – 3 Issues

ANNEXURE II

TALKS AND PAPERS

(A) TALKS AND SEMINARS

<i>Name of the Staff Members</i>	<i>Title of the Paper, Sponsor, etc.</i>
Dr K.C. Gupta & Mr D.S. Trivedi	Reduction of water consumption in processing and saving of caustic in Mercerization. JTc, NITRA GAZIABAD
Dr K.C. Gupta	Half day seminar on Disposal of Hazardous waste organized at ATIRA.
RM. Sanker	Delivered a lecture and as expert in panel discussion on “ Encouraging Innovation and entrepreneurship in academic environment in the research connect form on 17-10-2019 at IIT Gandhinagar.

Dr. Tanmoy Gangopadhyay	Development of composites parts by ATIRA Organized by: ISAMPE chapter 16, ISRO Thiruvananthapuram, Kerala
Deepali Plawat & J.B. Dhoriyani Dhiraj Mahajan	Nano Electrospinning at ATIRA and its application in 33rd Convention of Textile Engineers at Ahmedabad on 20-21st February 2020.
Naman Barot & Deepali Plawat	On 24th April 2020 National Investors Conclave on Technical Textile "Anti Bacterial and Pollution Face mask" On 24th April 2020 National Investors Conclave on Technical Textile "Portable water filter bottle" by Naman Barot and Deepali Plawat
Deepali Plawat	Presentation on Applications and testing facilities at ATIRA for Geo textiles in Roads in Gujarat, organized by Road and Building Department of Govt. of Gujarat at Sachivalaya Gandhinagar. Presentation attended by 30 of chief and class 1 Engineers on 17/5/2019
Deepali Plawat	Presentation on Applications and testing facilities for Geo textiles in canals and dams in Gujarat organized by Narmada Nigam and water resources Department of Govt of Gujarat at Sachivalaya Gandhinagar. Presentation attended by 20 of Chief and class 1 Engineers on 28/08/2019

SEMINAR, CONFERENCE, TALKS ETC ATTENDED BY ATIRA

Shri Hitesh Solanki	Title: Techtexsil –August, 2019
Dr. Tanmoy Gangopadhyay	China Composite Show
Shri Ashok Kumar Bhuyan	China Composite Show
Shri Ashok Kumar Bhuyan	Advanced Composites
Deepali Plawat, Nitin Rawal, J.B. Dhoriyani	Cotton Meet organized by Gujarat Trade Association on 13/10/2019 at Rajkot.
Deepali Plawat/ Naman barot	National Investors' Conclave On Technical Textiles- Nictt2019" 24th April 2019, Coimbatore
Ms. Fahimunnisa Khatai Ms. Binita Patel	Seminar on Trace level heavy metal analysis & trouble shooting for ICP at Agilent Technologies. Seminars on residue analysis in LC-MS & trouble shooting for LC-MS at Agilent Technologies.

ANNEXURE III

TECHNICAL TRAINING PROGRAMME

Programme Title	No. of Programme Conducted	No. of Mills Participated	Total No. of Participant
Basic Course in Weaving (Basic of Textiles) for Powerloom owner, entrepreneur	4	7	7
Basics of Textile Wet Processing	1	1	1
Positive Attitude and Behaviour Change	1	2	4
Cotton Quality Parameters and Its Impact on Yarn and Fabric	2	2	10
Training in Composites Material	1	1	2
Geo textile Testing Training	1	1	12
Freshers Training in Textile Chemical Processing	3	2	19
Measurement of Uncertainty (MU) – Estimation and Budget of Uncertainty as Required for ISO/IEC 17025:2017" at ATIRA, Ahmedabad	1	5	12
Analysis of Chlorophenols, banned amines & pesticides	1	-	4
Stain removal in embroidery fabrics	1	1	3
Denim Processing	1	1	1
	17	23	75

ANNEXURE IV

TESTING

Type of Testing	No. of Samples Tested
Textile Testing	
Fiber	38552
Yarn	2681
Geotextile	16961
Autotech	2390
F & G Flammability	897
Industrial fabrics	720
Gloves, High visibility Clothing etc.	805
Other Fabrics	11456
Special	2619
Chemistry	
Chemical Textile	2006
Analysis of Solid Fuel	893
Chemical Technology	
Fabric Defect	550
Textile Processing chemicals	125
Calibration of Instruments	1349
Powerloom service centre	213
Composites	4406
Heat & Flame Test Lab	226
Eco Lab	54
Face Masks, Formaldehyde, Azo free Banned Amines	

ANNEXURE V

List of Consultation Reports

Chemical Technology Division

Damage assessment and certification of goods/fabric damaged during fire at process houses: 6nos

Centre for Management

TEV study report : 2 nos.

Technical Assessment: 4 nos.

Valuation of Readymade Garments: 1 no.

Environmental Engineering Division

Environment Audit Reports: 12 nos

EMS Certification & Assessment Study Report: 27 nos.

Ambient Air Quality, Flue Gas Stack & Noise Monitoring: 3 nos

Monthly Monitoring reports: 3 nos

Calibration setup & testing reports: 1 no.

Powerloom Service Centre

Specifications of Cotton bags for grain packaging: 1 no

Fiber analysis: 1 no.

ANNEXURE VI

MEMBERS OF THE COUNCIL OF ADMINISTRATION

ELECTED MEMBERS

Chairman
Shri Sanjay Lalbhai
Arvind Ltd.
AHMEDABAD

Shri Pradeep Bhandari
Reliance Industries Ltd.
AHMEDABAD

Shri Samveg A. Lalbhai
Atul Ltd.
AHMEDABAD

REPRESENTING GOVERNMENT AGENCIES

Jt. Secretary (R&D)
Ministry of Textiles
Govt. of India
NEW DELHI

Jt. Secretary (Cotton)
Ministry of Textiles
Govt. of India
NEW DELHI

Textile Commissioner
Office of the Textile Commissioner
MUMBAI

AS & FA
Ministry of Textiles
Govt. of India
NEW DELHI

DIRECTORS OF CO-OPERATIVE TEXTILE RESEARCH ASSOCIATIONS

Dr. A. K. Mukhopadhyay
Director
Bombay Textile Research
Association (BTRA)
BOMBAY

Dr. Prakash Vasudevan
Director
South India Textile
Research Association (SITRA)
COIMBATORE

Dr. Arindam Basu
Director
Northern India Textile
Research Association (NITRA)
GHAZIABAD

Shri Pragnesh Shah
Director
ATIRA
AHMEDABAD

REPRESENTING AHMEDABAD TEXTILE MILLS' ASSOCIATION

President
Ahmedabad Textile Mills' Association
AHMEDABAD

CO-OPTED MEMBERS

Shri Naishadh Parikh
Equinox Group
Ahmedabad

Shri Prafull Anubhai Shah
Arohi Consultants
Ahmedabad

Shri Punit Lalbhai
Arvind Ltd.
Ahmedabad

CO-OPTED ASSOCIATE MEMBERS

Mrs. Dipali Goenka (Nominee Shri Milind Hardikar)
Welspun India Ltd.
Mumbai

ANNEXURE VII

MEMBERS OF THE COMMITTEE

(A) COMMITTEE FOR APPOINTMENTS OF SENIOR STAFF

Shri Sanjay Lalbhai
Chairman
ATIRA Council of Administration

Shri Prafull Anubhai Shah
Arohi Consultants
Ahmedabad

Shri Pradeep Bhandari
Reliance Industries Ltd.
Ahmedabad

Shri Pragnesh Shah
Director,
ATIRA, Ahmedabad

ANNEXURE VIII

STAFF (AS ON 31-03-20)

DIRECTOR

Shri Pragnesh Shah
F.C.A.

Deepali Plawat
Dy. Director
B. Textile Tech. Dip. International
Business Management, M.B.A.
(Supply Chain Management/
Operation Management)

CHEMICAL TECHNOLOGY DIVISION SCIENTIFIC OFFICERS

Dr. Kailash Chandra Gupta
M.Sc., Ph.D.
Consultant

D S Trivedi
B.Sc., Dip. In Tex. Mfg. Tech.,
Dip. In Per. Mgt. & IR

COMPOSITES SCIENTIFIC OFFICERS

Dr. Tanmoy Gangodhyay
Deputy Director
B.Tech., M. Tech., PhD.

Ashok Bhuyan
B.Sc., PGD-PTCT, MBA
(Operation & Marketing)

Chintan Chavda
D. M. E.

Hitesh Solanki
B. E. in Plastic Technology

Parth Patel
B. E. (Plastic)

C L CENTRE FOR MANAGEMENT

R M Sankar
Asst. Director
B.B.A., M.Com., M.B.A., L.L.B.

CHEMISTRY

Fahimunnisa Khatib
M. Sc.

ENVIRONMENTAL ENGINEERING DIVISION SCIENTIFIC OFFICERS

M. R. Parikh
B. Sc. (Chem)

Binita Prajapati
B.E. (Chemical)

Vaishali Patel
B.E. (Env.)

Falguni Garud
B. E. (Env.), Post Dip. In Industrial
Safety

GUWAHATI CENTRE – NER

P. S. Barbora
B. Text

S. C. Sarma
B. E. (Civil)

INCUBATION CENTRE

Hemant Acharya
B.E. (Textile Technology)

NANO TECHNOLOGY

Dhiraj Mahajan
Ph.D Chem. Tech

QUALITY SYSTEM GROUP ELECTRONICS & IT GROUP

Kishori M Bhatt
D.E.R.E.

Devang Thaker
B.E (Electronics & Comm.)

Varun Patel
B. E. (Electronics & Comm.)

C. S. Vora
D.E.R.E, B.E. (Electronics &
Comm. Engg)
Consultant

TEXTILE TESTING LABORATORY

Jigar Dave
Dip. In Textiles

Smita Maharia
M. Tech Textiles

Nitin Raval
Cert. in Spinning

LIBRARY & NICTAS AT ATIRA

Mrs. Hina N Shah
B.Sc. D.Mkt. Mgt., M.Lib.
Incharge

POWERLOOM SERVICE CENTRE

Hasmukh P Patel
D.T.M.T.

ATIRA REGIONAL CENTRE, INDORE SCIENTIFIC OFFICER

Adish Jain
B. E. (Tex. Tech.)

ADMINISTRATION

Gretta Joseph Alex
B.Com., B. Lib.

G C Patel
M.A., L.L.B.

Subhasis Pal
B. E. (Mech.)

Alkesh N Patel
Asst. Officer
I.T.I

R R Patel
B.Com, L.L.B.

Om Prakash Dubey
B.A., M.A. Part I

Director	1		
Deputy Directors	2		
Assistant Director	1		
Scientific & Technical Officers	28	3 +	25*
Scientific & Technical Assistants	35	4 +	31**
Non Technical Officer	4	1 +	3***
Non Technical Assistant / Other Staff	23	18 +	5****
<u>Total</u>	<u>94</u>		

* 25 on Contractual Appointment

** 31 on Contractual Appointment

*** 3 on Contractual Appointment

**** 5 on Contractual

ANNEXURE IX

NOMINATION, RECOGNITION

1. Air and Environment Laboratory got accreditation, for the period of 2 years, of NABL and the accreditation is valid up to 17/01/2021.
2. ATIRA has been appointed as the primary and independent assayer for cotton testing on the two largest platforms – MCXCCL and BSE / ICCL.
3. ATIRA has been approved by Ministry of Water Resources as their neutral third party lab for Geotextile testing.
4. ATIRA has been empanelled by Sardar Sarovar Narmada Nigam Limited, GOG for Geo Textile Testing.
5. ATIRA has been nominated in the sub-committee to finalise cotton Balance sheet by Cotton Advisory Board, GOI.

ANNEXURE X

VISITORS

Mr. Tom Rouleau	Director, Aerospace Sales
Mr. Sean Johnson	Product Manager, Aerospace Sales
Mr. Ravnish Luthra	CEO, ITGLOBE Inc
Mr. Sanjay Attara	Director, AZISTA Industries Pvt Ltd
Mr. Sunil Indruti	Director, AZISTA Industries Pvt Ltd
Mr. R. K. Mehta	Senior Manager, AZISTA Industries Pvt Ltd
Mr. Uday Dave	Senior Manager, AZISTA Industries Pvt Ltd
Shri Rajeev Jyoti	Deputy Director, MRSA/ SAC
Mr. Dinesh Kumar Singh	Group Director, SAC – ISRO
Dr. Sudhir Kumar	Associate Director, ISRO - HQ
Dr Anant Raheja/ Dr Raj shekhar	FIB sole Technologies
Mr. Prashant Sinha	MultiCommodity Exchange (MCX)
Dr Harish Sonawane	Ducit Material LLP
Reline UV Asian team along with Delhi Jal board representative, IT professors,	Reline UV Asian

Following dignitaries visited ATIRA to study the R & D activities and to interact with management of ATIRA with respect policy environment, future orientation and sustenance.

Shri Ravi Capoor	Secretary - Ministry of Textile Government of India
Shri Prem Kumar Kataria	Addl. Secretary - Ministry of Textiles Government of India
Shri Puneet Agarwal	Jt. Secretary - Ministry of Textiles Government of India
Shri Sanjay Sharan	JT. Secretary - Ministry of Textiles Government of India
Shri Nihar Ranjan Dash	Jt. Secretary - Ministry of Textiles Government of India
Shri Jogiranjana Panigrahi	Jt. Secretary - Ministry of Textiles Government of India
Shri Shant Manu	DC (Handicraft) Government of India
Shri Sanjay Rastogi	DC (Handlooms) Government of India
Shri R. R. Okhandiar	Member Secretary (Central Silk Board, Bangalore) Government of India
Dr. P. Alli Rani	CMD, CCI Government of India
Shri Pradeep Kumar Agarwal	DM CCI Government of India
Shri Usha Paul	DDG Textile Government of India
Shri M. C. Chakravarthi	Textile Commissioner Government of India
Shri S. P. Verma	Jt. Textile Commissioner Government of India