

# sasmira

THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION

## 71<sup>st</sup> Annual Report 2020-21



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# **sasmira**

**THE SYNTHETIC & ART SILK MILLS'  
RESEARCH ASSOCIATION**

**(Registered under the Societies Registration Act XXI of 1860 and  
Bombay Public Trust Act 1950)**

**71<sup>ST</sup> ANNUAL REPORT 2020-2021**



# THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION COUNCIL 2020-21

## President

Shri Maganlal H. Doshi

## Vice-President

Shri Mihir R. Mehta

## Council Members

Shri Sunil S. Mehta

Shri D.V. Radia

Shri V.I. Bachkaniwala

Shri B.S. Parekh

Shri Gokul K. Mehta

Shri Bharat T. Gandhi

Shri S.S. Khetan

Shri Sunder G. Golani

Shri I.P. Poddar

Shri Kaval Mehra

Shri Viresh Kamdar

Shri Dineshchandra S. Zaveri

Mrs. Smita A. Yeole

Shri Bharat H. Mehta

Shri Jayesh R. Mehta

Mrs Hemal P. Udani

Shri Rajan Sehgal

Shri Kapil A. Shorewala

Shri Nandkishor D. Chorawala

## Nominated Members

Addl. Secretary & Financial Adviser,

Ministry of Commerce & Textiles, New Delhi.

Joint Secretary,

Ministry of Textiles, Govt. of India, New Delhi.

Textile Commissioner,

Ministry of Textiles, Govt of India, Mumbai.

NITI Aayog,

Government of India, New Delhi

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# THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION SEVENTY-FIRST ANNUAL REPORT OF THE COUNCIL

## GENERAL

The Council of The Synthetic & Art Silk Mills' Research Association have great pleasure in presenting to its members the Seventy-first Annual Report, Audited Balance Sheet and the Income and Expenditure account for the year ended 31<sup>st</sup> March 2021.

## COUNCIL MEETINGS

During the year under review four meetings of the Council were held. The average attendance of the members of the Council at the meetings was 55.95%.

## ELECTION OF COUNCIL MEMBERS

At the Seventieth Annual General Meeting of the Association held on 18<sup>th</sup> November, 2020, seven members of the Council viz. Shri Sunil S. Mehta, Shri S. S. Khetan, Shri Viresh Kamdar, Shri Nandkishor D. Chorawala, Shri Sunder S. Golani, Shri Kaval Mehra and Shri Jayesh R. Mehta were to retire by rotation and eligible for re-election.

Since there were only seven candidates against seven vacancies in the Council, there was no election and all the seven candidates viz. Shri Sunil S. Mehta, Shri S. S. Khetan, Shri Viresh Kamdar, Shri Nandkishor D. Chorawala, Shri Sunder S. Golani, Shri Kaval Mehra and Shri Jayesh R. Mehta were declared elected.

## PRESIDENT AND VICE-PRESIDENT

The Council re-elected Shri Maganlal H. Doshi as President of the Association and Shri Mihir R. Mehta as its Vice-President.

## MEMBERSHIP

The Association has at present a total membership of 69 units spread all over Country. This consists of 63 Ordinary Members, 5 Associate members and 1 individual Associate Member. There are 48 members from Maharashtra, 19 from Gujarat, 1 from West Bengal and 1 from Telangana.

## MEMBERS OF THE COUNCIL TO RETIRE

As per Rule No. 27 of the Rules and Regulations of the Association, Seven members of the Council Viz. Shri Mihir R. Mehta, Shri D.V. Radia, Mrs. Hemal P. Udani, Shri V.I. Bachkaniwala, Shri Bharat T. Gandhi, Shri Dineshchandra S. Zaveri and Shri I.P. Poddar are to retire by rotation this year and eligible for re-election.

**Making India a Global Leader  
in Textile Industry**

**Creation of  
National  
Technical  
Textile Mission**

Mission to be implemented during FY 2020-21 to 2023-24 with an outlay of Rs. 1480 crore	Mission to have 4 components: R&D, Market Development, Export Promotion, Education & Skill Development
Focus on usage of technical textiles in various flagship schemes of the government	Will bring an overall improvement in cost economy & promote Make in India

## RESEARCH AND DEVELOPMENT ACTIVITIES

The Synthetic and Art Silk Mills Research Association (SASMIRA) is principally engaged in applied research to meet the changing needs of the man-made textile industry. SASMIRA is engaged in the implementation of research projects by various funding agencies as depicted below:

Sr. No	List of Funding Agencies	Total Projects
1	Ministry of Textiles (MOT)	
	- Mechanical processing	7
	- Chemical processing	5
2	Khadi and Village Industries Commission (KVIC)	1
3	Department of Science & Technology (DST)	2
4	Rajiv Gandhi Science & Technology Commission, Government of Maharashtra	1

## ONGOING PROJECTS

### MINISTRY OF TEXTILES (MOT)

#### I MECHANICAL PROCESSING

##### 1. Smart shade-net through auto-regulation of thermal and light radiation

Shade-net is used to cut-off the extra sunlight and allow the remaining desired sunlight to the plant. Plants require the sunlight reaching them should be in diffused form not in specular form. Conventional shade-nets cut the extra sunlight but direct the desired sunlight to the plants mostly in specular form which is undesired. In tropical and sub-tropical regions sunlight present in the day time is extreme and temperature is also very high. So to get the optimum results it is required to keep sunlight and temperature both at optimum level. Thermal energy which causes rise in temperature is carried by the Infrared portion of the spectrum. Conventional shade-net are transparent to the infrared radiation, which causes rise in temperature inside the net-house. Thus, project envisages developing shade-nets which can reflect IR energy.

Suitable IR reflective nanomaterial has been identified and procured. HDPE/Nanomaterial based nanocomposite materials have been developed through melt Compounding technique. Developed Nanocomposites have been used for the filament development. Testing and analysis of the nanocomposite has

been done. IR reflecting Shade-net has been developed. Field trial is to be conducted. A paper on "Smart Shade-net for managing light radiation for horticultural application" was presented at International Conference on Advances in Textile Materials and Processes (ATMP-2018), IIT Kanpur, 19<sup>th</sup> to 20<sup>th</sup> November 2018. A paper on "Development of thermal and light energy managing smart shade-net for horticultural application" was accepted for Asian Textile Conference 2019.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

##### 2. Development of multi-purpose shade net for water harvesting

Atmospheric water is generally clean, does not contain harmful micro-organisms and is immediately suitable for irrigation purposes. Given that fog harvesting is particularly suitable for mountainous areas where communities often live in remote condition, capital investment and other costs are generally found to be low in comparison with conventional sources of water supply. Currently the villagers have to travel long distances to collect water and it is time and energy consuming. The water harvesting by the proposed technology would enable them to harvest and use water at their locales itself.

Different structures of the shade net suitable for the application for water harvesting was studied and samples were developed with different geometry of the tape and filament yarn. The developed HDPE tape were compounded with carbon based material to increases the fog collecting capacity and then to condensate into water much faster as compared to standard type locally available. Developed structure has been installed in Pftusero, Phek, Nagaland and Sagalee, Arunachal Pradesh for water harvesting trials. Analysis of harvested water sample for its various quality parameters like pH, BOD, COD etc. is ongoing. A Patent has been applied on "Development of multipurpose shade net for water harvesting" vide No. E-2/2703/2019-MUM.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

##### 3. Design and development of an instrumental set up for measuring the wind blockage percentage of horticultural wind break nets

Wind break nets are used to give protection to the crops. Windy conditions can often double the amount of fuel needed to heat a greenhouse or nursery structure. Properly designed windbreaks have been shown in some cases to cut structural heating and

cooling costs by as much as 10 to 40 percent. In areas with hot, dry winds, windbreaks can reduce the summertime cost of cooling greenhouse. Control of above factors helps in getting optimum yield of crop. Wind nets are manufactured by knitting / weaving polypropylene / polyester monofilament / tape yarns with varied constructions. However, no instrument is available to quantify the amount of wind blockage achieved by the net. Hence, the proposed project aims at development of a set up for measuring wind blockage percentage of nets which is one of the key test parameter for net samples.

As per the objective of the project, the important aspects such as wind velocity; temperature; humidity and pressure levels at different zones of the country were studied. Accordingly the schematic diagram and design of the machine was finalised and various components required for the set-up were procured. Thus, the set-up for wind blockage percentage has been developed and pilot plant trial of the developed set-up for wind blockage percentage is done. Testing and evaluation trials for few samples have been done and the results are found to be compatible with the construction of the wind break net.

The test procedure for wind blockage test on the developed set up has been approved by BIS and published in the BIS specification of wind break net. A patent has been applied vide Appl No. E-2/788/2019-MUM titled "Wind blockage tester for agricultural wind break nets".

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

#### **4. Development of next generation thermochromatic thermoregulatory agrotextiles for horticulture application**

Intensity of sunlight increases from morning to noon and sometimes its intensity is so high that it can affect the growth of plant or effects it survival. Shade nets protect them from excessive sunlight however when sunlight is less it hampers the photosynthesis. In this project it is proposed to develop photochromic / thermoregulatory agrotextiles for horticulture / agriculture application. The envisaged agrotextile fabric will be active in nature and responsive to the change in light intensity. It may gradually change from colorless state to dark color along with the increased light intensity. So this unique fabric will reflect the variable screening property and keep the availability of light to the plants at optimum level that may enhance the plant productivity and quality.

As per the objective of the project, additive viz. combination of organic and inorganic nanoparticle has been identified. These are thermoregulatory additive which creates enhanced and rapid thermal insulation, heat storage and re-emission of heat energy. Base polypropylene (PP) material has been modified by incorporating functional additives having thermochromatic thermoregulatory nature. The material development process has

been established and optimized. Development of Agrotextile crop cover is under process.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

#### **5. Development of high strength cost effective seamless technical circular fabric from heavy denier multifilament yarns**

Seam is always a problem in a circular fabric as strength of the fabric at seam is less than the other parts of the fabric. During their application all parts of the fabric come under stress and there are always chances of failure at seam. Thus, seamless circular fabrics are ideal for such applications. Thus, in this project it is envisaged to develop technical fabric using heavy denier multifilament yarns which may be used in both warp and weft directions. There will not be any seam in the envisaged fabrics. Technical fabrics may be seamless as well as flat. So fabric will be homogeneous and have same strength in all parts of the fabric in warp direction. Owing to the same strength in all parts, envisaged seamless fabrics can be ideal for applications like Geo-tubes, Geo-bags, Geo-textile encased columns in road construction, fire escape chute systems fabrics etc. The envisaged method to develop fabric by circular weaving system will bypass several processes being currently used in conventional woven fabric development and weave directly, which saves considerable cost and time.

As per the objective of the project raw material has been identified viz. high tenacity polyester, polypropylene. Order was placed for procurement of necessary machineries like assembly winder, two for one twister and circular loom. Out of which two machines viz assembly winder and two for one twister has been delivered and installation and commissioning is under process. Sample development trial and their testing are going on. A patent on "Circular weaving process for development of seamless circular fabric from heavy denier multifilament yarns" has been applied vide Application No.E-2/2502/2017-MUM.

Project work has been hampered due to shortage of funds, So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. To complete the remaining project work release of 2<sup>nd</sup> Instalment has been requested.

#### **6. Design and development of a digital instrument for measuring the thermoregulatory properties of textiles**

There are few fabrics available in the market which can control the body temperature and keep the wearer cool in a hot weather or warm in an extremely cold weather. Some fabric manufacturers claims that their innovative fabric can reduce the body temperature by around 10-15°C. But as of now, there was



no such instrument available in the market to verify the claim by the manufacturers and objectively assess this sort of thermoregulatory properties of functional textiles. Thus it is envisaged to design and develop an instrument for measuring thermoregulatory properties of textiles.

As per the objective, design has been finalised and procurement of the components is done. The fabrication of the instrument for measuring the thermoregulatory properties of textiles is completed. Testing and evaluation trials are ongoing on the developed instrument.

Project work has been hampered due to shortage of funds, So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. To complete the remaining project work release of 2<sup>nd</sup> Instalment has been requested.

## **7. PP/Jute hybrid mulch mat for moisture and temperature management in horticulture application**

Mulching is a technique of covering soil with some suitable means like straw, film, Agrotexile ground cover /mulch mat. It suppresses the weed growth around the plant. Two main products which are currently being used for mulching application are mulching film and Agrotexile Ground Cover. Mulching films have several drawbacks viz. Non-biodegradable in nature, Single use, Low strength (Makes it susceptible to tear and damage during its usage). Based-upon the nature of material used Agrotexile mulch/ground cover is divided into two broad categories, one is synthetic mulch e.g. Polypropylene (PP) and High Density Polyethylene (HDPE) mulch mat another one is mulch mat made-of natural material like Jute. Synthetic mulch is strong but non-biodegradable although recyclable while jute mulch is bio-degradable but GSM of the suitable mulch is generally very high. Thus, this project envisages developing a PP/Jute hybrid mulch. To preserve the biodegradable nature of jute, PP would be mixed with keratin extracted from waste like chicken feathers. The proposed hybrid mulch fabric would combine the positives of two categories and eliminate the negative effects. The envisaged product would be relatively light weight and less porous, it will facilitate creating appropriate environment for cultivation.

As per objective, literature survey has been completed; suitable raw material (PP and Jute material) has been identified. PP material has been modified by incorporating color UV additives. Jute mulch products have been developed. Hybrid mulch containing 70% jute and 30% PP has also been developed. The product development process has been established and optimized. Field trial study is going on.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, 2<sup>nd</sup> instalment is due. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, due MoT, Gol share is yet to be received.

## **II. CHEMICAL PROCESSING**

### **1. Development of biodegradable agro textile products for horticulture application using keratin based waste products**

Currently, nursery containers are produced using materials obtained from oil or natural gas and are becoming an increasingly expensive commodity. Biodegradable nursery containers would be boon to the environment and producers alike. In this project, it is envisaged to make biodegradable pots from chicken feathers for horticulture applications. As proposed in the project, these pots will be made of keratin and plasticising polymers which will have a better shelf life and will not crack or wither as fast as their plastic counterparts. The percentage of polymeric addition to the keratin will be optimized to get the desired biodegradable extent and shelf life.

Literature survey was done for finding out various ways of keratin extraction from chicken feathers. Methods like chemical extraction (sulphitolysis method), enzymatic extraction and using hydrophobic ionic liquids were applied to extract keratin. Maximum amount of extraction was done using hydrophobic ionic liquids upto 25 %. Various protein extraction methods have been identified and optimization of pretreatment process for chicken feathers with respect to different extraction assay was done. Plasticization parameter has been optimized and keratin film composite has been developed. Characterization of developed film and its biodegradability study has been done. Moulding and evaluation of biodegradable Agrotexile products from processed keratin is in process. A Patent on "Agrotexile/Horticulture films using keratin from chicken feather waste" has been applied vide No. E-2/2707/2019-MUM.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

### **2. Biological synthesis of bio-degradable textile polymer**

Modern life has been influenced by plastic due to their useful physical properties and low production cost all these plastic polymers are derived from non-renewable petrochemicals and are non-bio-degradable which ultimately pollutes the environment. Currently there is no potential substrate which can replace the plastic which is need of the hour. In this project, it is proposed a methodology for the development of biopolymer which can have more or less similar properties like plastic and it can be used as substitute of the plastic in many areas e.g. sapling bags.

As per objective of the project, nine Poly (hydroxybutyrate) (PHB), a polyester producing bacteria have been isolated for the synthesis of bio degradable textile polymer. Out of these five strains were found to exhibit PHB yields in the range of 22 -55 %.

Bio- Parameters (Carbon source, Nitrogen source, Incubation temperature, Media pH) were optimized to maximize the PHB production. Lab scale production of PHB in fermentors has been completed. Characterization of bio polymer for biodegradability properties is in process. The best combination will be used for development of agricultural ground covers / crop covers. A Patent on "Agrotextile mulch films using naturally synthesized PHB granules" has been applied vide No. E-2/2706/2019-MUM.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

### **3. Biotransformation of naturally occurring phenolic compounds for development of eco-friendly flame retardants (FR) for imparting functionality to textiles**

Eco-friendly FR is the need of the hour. All halogenated FR currently in use are toxic and carcinogenic in nature. These materials are banned in most countries. Other FR materials need strong chemicals, reagents and high temperature for synthesis. Hence, an enzymatic biotransformation is most viable option being economical affordable, eco-friendly and energy conserving. The aim of this project is to create a new novel class of non halogenated flame retardants with good char and heat release capacities by the use of biocatalytic enzymes in predominantly aqueous / benign solvent environment. Also use of renewable raw materials (monomers and catalysts) for the synthesis of these FR will be attempted.

Readily available Cardanol was procured and were characterized for phenol content. Other natural sources like pomegranate were also explored for extraction of phenolic compounds. Extractions of enzymes required for bio transformation is done. Characterization of developed polymer and study of its FR properties has been done. The optimized formulation is being applied as a flame retardant chemical for textile and the comparative study with synthetic flame retardants is ongoing. A Patent on "Ecofriendly flame retardant polymers from natural phenolic compounds for home furnishings textile" has been applied vide No. E-2/2704/2019-MUM.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

### **4. Establishment of methodology for green processing of cotton using supercritical carbon dioxide technology**

Cotton is the most important natural fibre used in the textile industries worldwide. A significant part of the apparel export from

India is dominated by cotton garments. The wet processing on cotton consumes huge amount of chemicals and water. The waste water thus generated after the processing of cotton is discharged as effluent. This has caused serious environmental problems. Alternative methods are being used to save water viz., low liquor ratio, pad-sizing, ozone processing, enzyme desizing, multiple wet cycle for garment washing, removing water from stone wash, etc. However, all these methods have not been able to minimize the effluent load from wet processing of cotton. Thus in the present project supercritical carbon dioxide (SC-CO<sub>2</sub>) technology as an alternative to present conventional method is being envisaged.

As per the objective, various pre-treatment processes of cotton fabrics like desizing, scouring, bleaching has been identified where SC-CO<sub>2</sub> technology can be replaced with the conventional method which uses water, chemicals/auxiliaries. Sample batching system for the SC-CO<sub>2</sub> set-up has been installed. Trials were conducted for pre-treatment of cotton using SC-CO<sub>2</sub> set up for optimization of parameters viz temperature, pressure, time using the design of experiment statistical model using Response Surface Methodology (RSM), Box-Behnken model. Optimisation of parameters for processing of cotton fabric was carried out by treating fabric with only SC-CO<sub>2</sub>. Optimization study has been done for pre-treatment of grey cotton fabric using 1) SC-CO<sub>2</sub> and water and 2) SC-CO<sub>2</sub> and different enzymes viz. lipase, amylase, and pectinase. The evaluation of SC-CO<sub>2</sub> pre-treated fabric vis-a-vis conventional method is being carried out with respect to its weight loss, absorbency, whiteness index and yellowness Index.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, Gol share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, Gol share is yet to be received.

### **5. Design and development of low cost reusable sanitary pads for Indian women**

India produces several hundred million used sanitary pads a month, but has no disposal protocols. Incinerators are rare and can have unpleasant environmental impacts if used at scale. Commercial pads are too expensive for most underprivileged schoolgirls and young women. They opt for low cost reusable cloth pads which however, are unhygienic and uncomfortable. An initiative to make available sustainable low cost, safe, absorbent and degradable quality sanitary pads to the poor schoolgirls and young women is necessary. Thus, the project envisages designing and developing low cost reusable sanitary pads using locally available biodegradable materials.

As per the objective, selection of substrates for three layers has been done. Top layer (polyester) to absorb blood, middle layer (superabsorbent material) to lock blood flow and moisture and outer layer (coated polyester) to be leak proof and breathable. A route to develop the middle absorbent layer which is the key layer has been done. Testing and study of the different developed layers for its functionality and summarization of evaluated results is ongoing. A Patent on "Low cost reusable sanitary pads" has been applied vide No. E-2/2705/2019-MUM.

The process of finalizing the draft specification is simultaneously in progress and SASMIRA has been made the Convenor of the Panel Constituted for Finalization of Specification of Reusable sanitary Cloth pad/Napkin by Bureau of Indian Standards, New Delhi.

Project work has been hampered due to shortage of funds, remaining project work couldn't be completed due to shortage of funds. So far only the 1<sup>st</sup> Instalment of MoT, GoI share has been received, the recommended 2<sup>nd</sup> instalment has not been received. The R&D scheme was extended upto 31<sup>st</sup> March 2021. However, approved MoT, GoI share is yet to be received.

## **KHADI AND VILLAGE INDUSTRIES COMMISSION (KVIC)**

### **1. Ergonomic studies on 10 spindle charkha developed by Udyog bharti, Gondal, district, Rajkot of Gujarat under KVIC**

Spinning is one of the important operations in the Khadi/Cottage industry. Majority of the workers are involved in operating the charkha, working in uncomfortable environment and hence affecting the human health thereby the productivity. To increase the productivity, it is necessary to study factors affecting the workers while carrying out the activity. Hence, there needs to be a proper balance between the man, machine and environment system by using the ergonomic principles, which will not only put the worker at ease but at the same time, will increase the productivity. The project envisages capturing anthropometric data of women workers in Gujarat and Assam states with special reference to operating 10 spindles Amber Charkha.

For Field study, visit was made to Udyog Bharti Gondal, data on various anthropometric parameters were collected and analysed. All the project objectives have been completed and a project completion report has been prepared and submitted to the KVIC for their assessment and approval. Evaluation of the project work is in process.

## **DEPARTMENT OF SCIENCE AND TECHNOLOGY (DST)**

### **1. Development of high performance hail protection net for agriculture / horticulture application**

Agricultural production in India is becoming increasingly vulnerable due to climate variability and change characterized by altered frequency, timing and magnitude of precipitation and temperature. The change in climate has increased events of hailstorm. Severe hailstorms not only damage the current crop but can cause structural and bud damage to fruit trees that may reduce or wipe out the fruit crop for the subsequent 2 or 3 seasons. Variability in crop yield due to extreme weather events influences the profitability and risk of fruit production. Due to climate change, the frequency and extent of losses due to hail have increased in India in the recent past. Therefore, this study

focuses on development of high performance hail protection net for better hail risk management.

Hail risk management is essential for successful farm management in agricultural production, particularly because hail events and associated losses have increased in recent years. The research initiatives on various aspects of crop management in the event of unfavorable extreme weather events have necessitated the need of effective technological solutions in such situations. Further, there is no Indian standard available for Hail protection nets. The study also envisages formulating Indian standard test method. The formulation of standard test method would restrict the supply of substandard products and save the consumer farmer's loss due to low grade products.

Project has been sanctioned for the financial assistance. So far two Instalments have been received. Study of market available anti-hail nets have been completed. Development of high performance raw material through incorporation of identified nano-materials into the polymer matrix is under process. Developed nanocomposites would be used for the development of envisaged high performance anti hail-nets.

### **2. Compilation and interpretation of the issues involved in commercialization of indigenous technologies in the Indian textile processing sector**

Various researchers are working for betterment of this industry via their inventions but some of them become successful in commercialization while many remained as pilot studies only. It is seen that many of the textile industries still believes and follows traditional process methods and, the attempts to innovate in the textile chain are timid, weakening the enthusiasm of the researchers. This gives space to imported products. It is thus essential to understand the difficulties faced by the industries to implement such indigenous products/processes; and analyze the issues that refrain the commercialization of such indigenous technologies. It is thus imperative to study and statistically analyze the issues that refrain the commercialization of indigenous technologies. This study will focus on collecting the data by questioning the industries in textile sector and finding loopholes. The extensive analysis will help in bridging the gap between the technology development and its commercial acceptance.

Project proposal has been recommended for funding by DST during PAC meeting. However, project sanctioning and release of 1<sup>st</sup> instalment is awaited; on receipt of grant the project work would be initiated.

## **RAJIV GANDHI SCIENCE & TECHNOLOGY COMMISSION (RGSTC)**

### **1. Development and design of low-cost adult urine incontinence product**

Diapers are offered in a wide range of prices for each type. Disposable diapers are not cheaper as single units and take a toll

on continuous expenses if one doesn't know the nuances of buying them. As of now, the Indian market has very less options of washable or reusable adult urine diapers. The available choices are very expensive and low at performance. Just like every other product, if the costs of manufacturing are cut down to the maximum by using alternative raw materials and innovative processing techniques, the production costs of reusable adult diapers won't be a costly affair either. In the manufacturing of adult diapers, their costs are mainly dependent on the absorbent pad core and the fabric that holds them in place. Thus, the project envisages finding low cost alternatives as raw materials to be used in the absorbent core of reusable Adult Urine Contenance (AUC) products.

Project has been sanctioned for the financial assistance. So far 1<sup>st</sup> Instalment has been received. Raw material for the three layers of the envisaged product has been identified and their procurement process has been initiated. The required capital items under the project are also being procured.

## **NEW PROJECT PROPOSALS**

New project proposals have been submitted to following funding agencies:

S.N	Name of the Project	Funding Agency
1.	Design and development of nanocomposite-impregnated antiviral face masks and respirators to provide protection against the sars- cov-2 (coronavirus). (in collaboration with Karmaveer Bhauroa Patil College, Navi Mumbai)	Department of Science and Technology
2.	Development of heat load reducing photoselective agrotexile for agricultural / horticultural application (Project idea has been selected for screening)	Rajiv Gandhi Science & Technology Commission
3.	Development of a functional, high performance auxetic fabric with negative poisson's ratio for technical textile applications	Ministry of Textiles
4.	Development of high performance all terrain emergency track-way	Ministry of Textiles
5.	Development of power textile for enhanced & rapid increase in temperature through thermal insulation, heat storage and re-emission	Ministry of Textiles
6.	Development of unique methodology for identification of hemp and linen to avoid import adulteration	Ministry of Textiles

S.N	Name of the Project	Funding Agency
7.	Development of methodology for extraction of coconut, kenaf (aambadi) & bamboo grown in Maharashtra	Ministry of Textiles
8.	Development of natural fibre composites using bacterial cellulose as binders to achieve strength and biodegradability for technical textiles applications	Ministry of Textiles
9.	Design and development of an instrument to evaluate impact resistance of hail protection net and standard development	Ministry of Textiles

## **GOVERNMENT OF MAHARASHTRA**

SASMIRA has been actively working towards the implementation of Textile Policy of Govt. of Maharashtra. In order to achieve objectives of the policy SASMIRA had proposed following three projects which are under review.

### **1. Development of Versatile Mobile Textile Effluent Treatment System for De-centralized Textile Industries**

The textile wet processing industry is divided into different segments and each segment caters to specific processing needs viz., cellulosic dyeing, synthetic fibre fabric, blends and wool processing. The liquid discharge from these industries is different and hence the treatment for these should also be different. Depending on the effluent generated, SASMIRA has developed few low cost as well as high end effluent treatment modules. Thus, SASMIRA has propagated the concept of pollution control by reutilization of dye bath liquor for water conservation and reduced dyeing costs to the decentralized sector.

Yet the cost and space requirement of the set-up being prohibits the industry, specifically the smaller cluster of process houses from setting up the Effluent Treatment plants. SASMIRA has a unique proposition to tackle this requirement by way of developing a Mobile ETP Plant for the industry which will enable the industry to hire these Mobile plants for recycling of their effluent stream.

### **2. Setting up a 100 liters capacity, SC-CO<sub>2</sub> based dyeing set-up for textile**

The textile wet processing industry is today interested in newer technologies which can address both effluents as well as ecofriendly process. Waterless dyeing technology using supercritical carbon dioxide (SC-CO<sub>2</sub>) can provide solution to the textile wet processors. Till date, nationally there is no process standardization equipment available for SC-CO<sub>2</sub> dyeing process, though few International companies claim the availability of the product.

SASMIRA, under the Ministry of Textiles, Govt. of India sponsored project, has successfully designed and developed a

20 liters supercritical carbon dioxide set-up for textile dyeing. The developed prototype is a distinct set-up exclusively for carrying out the dyeing of fibres/fabrics using SC-CO<sub>2</sub> technology. The proposed set-up of 100lt capacity would help us in conducting commercial scale trial. SASMIRA would set-up the SC-SO<sub>2</sub> based plant at state govt. designated place. The set-up will be used for providing commercial scale trials for the Industry. It will help in propagating environmentally clean technology in the state.

### 3. Model Project to Promote Agrotextiles in Maharashtra

State Govt. is trying every means to increase the farmer's income. In the present capricious environmental conditions Agrotextiles can play an important role in increasing state agricultural/horticultural produce along-with farmer's socio-economic life by increasing their farm income. SASMIRA has proposed a model project for state which is aimed at increasing adoption of the Agrotextile in the state. The proposal has two major components one disseminating information about Agrotextiles through state wide training programs to the farmers and second provides Agrotextile products (kits) to selected farmers. The agrotextile kit would require an area up to 1000 Square meters to avail multiple agrotextile products (E.g. Shade net 500 Sqm and Ground Cover 500 Sqm). A farmer may avail agrotextile kit of area as per availability of land for a component within the upper ceiling as per agreed terms per beneficiary. The farmer having agricultural land can be a beneficiary of the said agrotextile kit. This project will result in higher demand and growth of agrotextiles in the state. The execution of the project will provide stimulus to the technical textile industry in the state as well as it would be instrumental in doubling farmers' income. Thus the growth of usage of Agrotextile products in the country will thus benefit both agriculturists as well as textile entrepreneurs in the state.

### PATENT APPLICATION

During the reporting period following R & D outcome has been applied/granted for Patents:

1. A Patent on "METHOD FOR ENHANCING ELECTRICAL CONDUCTIVITY OF POLYESTER (PET)" Patent Application-201621028631 has been granted on 14<sup>th</sup> October 2020 for the period of 20 years from the 23<sup>rd</sup> day of August 2016.
2. A Patent on "DEVELOPMENT OF MULTILAYERED BIOMAT TO COMBAT OIL SPILL POLLUTION" Patent Application No. 2362/MUM/2014, has been successfully defended, grant of patent is awaited.

### CENTRE OF EXCELLENCE (COE) AGROTECH

As a Centre of Excellence for Agrotextiles, during reporting period, SASMIRA has achieved:

- Establishment of testing & manufacturing facilities: All machines have been procured and installed as per DPR.

- Accreditation with National and International Institutes

SASMIRA laboratory for Centre of Excellence Agrotextiles is accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) in accordance with the international standard ISO/IEC 17025 – 2017 for Mechanical, Chemical and Biological evaluation of textiles. NABL accreditation is now valid till November 2021. During its renewal audit SASMIRA has extended its scope of testing by including testing of Toys, Food and Hazardous and restricted chemicals.

SASMIRA is internationally accredited by American Association for Laboratory Accreditation (A2LA), USA for Physical, Chemical and Microbiological testing of textiles and allied substrates. Renewal audit of A2LA accreditation was conducted from 9-12 February 2021. A2LA accreditation is now valid till 31<sup>st</sup> March 2023.

- Numbers of Persons to be trained by COE: The total number of trainees was 65.
- Number of Incubation Activities: 1 incubation activity has been initiated. 3 other products have been developed for the industry as per the required specifications.
- Number of specification/ standards to be formulated: New specification have been taken up during BIS Meeting and based on our inputs the following standards have been published: viz., 1) IS 17355:2020: Agro textiles — Polypropylene spun bonded non-woven mulch mat for agricultural and horticultural applications, 2) IS 17356:2020: Agro textiles — Windshield nets for agriculture and horticulture purposes, 3) IS 17357:2020: Agro textiles — Harvest nets for agriculture and horticulture purposes, 4) IS 17358 (Part 1):2020: Agro textiles — Fencing nets for agriculture and horticulture purposes — Specification — Part 1 Fencing nets made from extruded polymer mesh and 5) IS 17358 (Part 2):2020: Agro textiles — Fencing nets for agriculture and horticulture purposes — Specification — Part 2 Fencing nets made from mono filament yarns and combination of tape and mono filament yarns.
- Anticipated revenue generation in Rs. Lakhs: Revenue of Rs. 65 Lakhs has been generated.
- Number of training Programme/ Seminars/Conferences organized: COE-Agrotech participated in various webinars organised by different agencies.
- Number of DPRs to be prepared to set up Technical textile units: Two DPR is being prepared on agrotextile product for the benefit of the Industry.
- Number of technical consultancy assignments: 62 technical assignments and queries have been solicited from various Industries.

### SCHEME FOR PROMOTING USAGE OF AGROTEXTILES IN NORTH EAST REGION

Under the Scheme for "Promoting Usage of Agrotextile in North Eastern Region (NER)" by Ministry of Textiles, Government of India, wherein COE-Agrotech, SASMIRA is providing Technical

support. Aim of Scheme is to utilize Agro textiles in improving the horticulture and floricultural produce of the NER. Standing Finance Committee (SFC) of MoT has extended the "Scheme for Promoting Usage of Agrotexile in North East Region" up to March 2020.

Total 44 demo centres has been established in NER and same is being monitored and maintained for demonstration. The demonstration centre which has completed three years of operation has been handed over to the respective demonstration centre site incharge. Training of 5012 farmers has been

completed. Total 1218 Kits has been distributed to beneficiary farmers from NER states.

## **SCHEME FOR PROMOTING USAGE OF AGROTEXTILES IN REST OF INDIA**

The scheme is on the same guidelines as per the NER Scheme which is currently being implemented for the North Eastern State. Under this scheme, 10 demonstration centres have been established and 200 kits have been distributed. All the Demonstration Centres have been maintained and monitored for two years as per the terms of the Scheme.

# TESTING AND TECHNICAL SERVICES

## TESTING:

Number of Samples Tested for 2020 -21

(From April 2020 to March 2021)

Samples	Members	Non-Members	Total
Fibres	10	423	433
Yarn	51	187	238
Fabric	149	1863	2012
Technical Service	0	24	24
Dyes & Chemicals	0	0	0
Others	0	174	174
Certificate	0	15	15
Total			2896
		Additional (COE / R & D)	4
		<b>GRAND TOTAL</b>	<b>2900</b>

## NABL ACCREDITATION

SASMIRA's Chemical, Mechanical and Biological Testing laboratories are accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) under Department of Science & Technology, Govt. of India, since November 2004. The successful completion of Surveillance audit was done in October, 2020. The validity of the certification is till 26<sup>th</sup> November 2021 for the Mechanical, Chemical and Biological testing laboratories.

## A2LA ACCREDITATION

Further to strengthen our laboratory activities 'SASMIRA's Chemical, Mechanical and Biological testing laboratories had successfully undergone the International audit by American Association for Laboratory Accreditation (A2LA) and accredited since January, 2011. The renewal audit was successfully completed in February 2021 without any non-conformity (NC) with addition of 11 new tests to the existing scope and has been approved for continual of accreditation by A2LA. The validity of the certification is till March 31, 2023.

## PROFICIENCY TESTING PROVIDER ACCREDITATION

SASMIRA with its years of technical expertise and skill in the conduct of interlaboratory testing and proficiency testing activity has added a new feather in the cap by becoming a NABL accredited PTP provider in the year 2020-21 in the field of Mechanical, Chemical and Biological testing scheme. SASMIRA PTP had undergone the successful completion of onsite Preassessment audit in October 2020 followed by Final audit of PTP in December 2020 conducted by NABL as per ISO/IEC 17043: 2010. The certificate number issued by NABL is PC-1050.

The following schemes were conducted by SASMIRA under proficiency testing activity of SASMIRA PTP.

S.No.	Name of the PT scheme	Field of PT scheme	No. of laboratories participated	No. of test parameters in the PT scheme
1	SASMIRA/PTM-01/2019	Mechanical	14	5
2	SASMIRA /PTC-01/2019	Chemical	16	5
3	SASMIRA/PTB-01/2019	Biological	8	3
4	SASMIRA/PTM-02/2021	Mechanical	12	5
5	SASMIRA/PTC-02/2021	Chemical	9	5

## Technical Services

- To investigate the cause of warp and weft floats in the submitted woven fabric sample by M/s. Jai Durga Mills, Mumbai.
- To investigate the cause of the tears or hole in the finished fabric by M/s. Jainam Trading Company, Mumbai.
- To investigate the cause of weft Patta in the submitted fabric sample by M/s. Symbolic Fabrics Pvt. Ltd, Thane.
- To investigate the cause of black colour fading in the submitted fabric sample and garment sample by M/s. Catch Clothing Co.
- To investigate the cause of white spots/portions (unprinted) in the submitted screen printed finished fabric sample and its grey fabric by M/s. Sunrise Textiles, Bhiwandi.
- To investigate the cause of dark and light warp patta in the submitted fabric sample by M/s. Meliora Impex, Mumbai.
- To investigate the cause of white patches visible in the submitted finished fabrics by M/s. Santosh Industries, Bhiwandi.
- To investigate the cause white lines in the submitted finished and grey fabric sample by M/s. Agrawal Agency, Jaipur.
- To investigate the cause of several lines of filamentation or rupture of the yarn in the warp direction of the fabric sample by M/s. Supriya Silk Mills, Mumbai.
- To investigate the cause of warp and weft floats at one place in the submitted woven fabric sample by M/s. P.D. Impex, Mumbai.
- To investigate the cause of dark and light warp patta in the submitted fabric sample by M/s. Ambica Fashion, Mumbai.
- To investigate the cause of warp lines in the submitted fabric sample by M/s. Girish Silk Mills, Thane.
- To investigate the cause of dark and light portions in the weft direction of the submitted fabric sample by M/s. Jayavilas Subharaj Spinning Mills Pvt. Ltd., TamilNadu.

## Technical study on Technical textile/ other samples

- The customer M/s. Bharat Traders Mumbai had submitted Buckle sample used in the life jacket to check its test properties as per the specification ISO 12402-7 for Personal Flotation devices- Materials and Components-safety requirements and test methods.

- The customer M/s. Intertek Pvt. Ltd., Mumbai had submitted baby cloth samples for quantitative evaluation of antibacterial activity in washed and unwashed samples.

## Training Imparted /Witness Testing:

- Training imparted to 13 students of KBP College, Vashi on handling and functioning of Analytical testing equipment at SASMIRA during 27<sup>th</sup> January to 1<sup>st</sup> February 2021.
- Training imparted to 10 students of KBP College, Vashi on handling and functioning of Analytical testing equipment at SASMIRA during 1<sup>st</sup> March to 5<sup>th</sup> March 2021.

## Technical Opinion:

- Technical opinion on whether the factual test data of the submitted handkerchief sample meets the requirement of the given specification Uganda standard DUS 1564:2020 submitted by M/s. Kunal Creations, Mumbai.
- Technical opinion on whether factual data of the submitted undershirt cold weather sample meets the requirement of specification given as DMSRDE/T&GS/2002/457(a) by M/s. IAF, Nagpur.
- Technical opinion on whether factual data of the submitted undershirt cold weather sample meets the requirement of specification given as DMSRDE/T&GS/2002/457(a) by M/s. IAF, Nagpur.
- Technical opinion on whether factual data of the submitted Matress Glacier sample meets the requirement of specification given as DMSRDE/T&GS/2008/MG/NPDG/01) by M/s. IAF, Nagpur.
- Technical opinion on whether factual data of the submitted fabric sample of Cap body, reinforcement material and other accessories meets the requirement of specification given IAFS01072/2018 by M/s. IAF, Nagpur.
- Technical opinion on whether factual data of the submitted uniform garment samples meets the requirement of specification given in IS 15852: Textiles - Woven shirtings made of cotton man-made fibers/filaments and their blends by M/s. India Govt. Mint Corporation, Mumbai.

## Consultancy/Certificate:

- Certificate issued to M/s. Kewal Kiran Clothing, Mumbai for different varieties of fabric samples to ascertain whether the submitted sample is woven fabric with the details of construction and GSM.



## INSTRUMENTATION

SASMIRA has been undertaking designing and development of textile testing instruments for the textile industry. The instruments are developed as per British Standards, AATCC and Bureau of Indian Standards. SASMIRA's testing instruments have been supplied to several textile units and research bodies in India as well as neighbouring countries.

At the end of previous year total number of order pending was Nil. During the year, order was received for 3 units of different SASMIRA testing instruments. The orders received and break-up of the instruments fabricated by SASMIRA during the year are as follows.

Sr. No.	Instruments	Orders received in the year 2020-2021 (No. of Units)	Status of the order at the end of the year 2020-2021
1	Crimp Rigidity Tester	1	Pending
2	Twist Tester	1	Completed
3	Shade-O-Meter	1	Completed
<b>Total no. of Orders received</b>		<b>3</b>	
<b>Total no. of orders completed</b>		<b>2</b>	
<b>Total no. of orders pending</b>		<b>1</b>	

The instruments fabricated and supplied to various manufacturing units against specific orders totalled 2 (0 + 2). At the end of the current year the number of orders pending was 1.

## INFORMATION SERVICES (SASMIRA)

During the year under review 57 books, 35 bound volumes 16 dissertations and 20 other materials such as Annual Reports, Seminar Papers, etc. were added to the Library.

**The total holding of the Library is 23,904**

Books 10,424

Bound Volumes 8,617

Dissertations 2,362

Other materials 2,501

**Current Periodicals 51**

On Exchange 08

Gratis 43

## LIST OF WEBINARS ATTENDED / PUBLICATION / PAPERS PRESENTED

SASMIRA has been continuously serving the textile industry and entrepreneurs to create awareness in technical textiles by way of conducting seminars and workshops at the national and

international levels. During the reporting period, COE participated/organised in National and International webinars event on textiles and technical textile as given below:

- Attended Webinar on PPE to create a synergy between the Industry and Testing labs of Textiles.
- Attended BIS Meeting on TX-35 for Agrotexile on 18<sup>th</sup> May 2020.
- Attended BIS Meeting on TXDC 29<sup>th</sup> May 2020.
- Attended webinar organized by CII in May 2020.
- Attended Training on Testing conducted by NABL in May 2020.
- Attended Training on HPTLC Technique held by Archroma in August 2020.
- Attended TIFAC webinar workshop on 'Machine and Manufacturing Sector' on 20<sup>th</sup> August 2020.
- Attended Textile Committee Webinar on Formulation of Technical Regulation for HS code on 19<sup>th</sup> August 2020.
- Attended online conclave on Proficiency Testing conducted by NABL on 30<sup>th</sup> and 31<sup>st</sup> August 2020.
- Attended NABL Training on Testing of hazardous material on 4<sup>th</sup> August 2020.
- Webinar Meeting on Agro-textiles on 8.9.2020 organized by Ministry of Textiles.
- FICCI - Webinar on Can India Become Hub of Medical Textiles – 11<sup>th</sup> September 2020.
- India – Bangladesh Virtual Conference on Textiles and Apparel Sector, 30 September 2020 organized by CII.
- Webinar organized by LABINDIA on 26<sup>th</sup> November 2020.
- Virtual Conference on Intellectual Property organized by ASSOCHAM on 31<sup>st</sup> October 2020.
- Virtual Conclave on INDCON (Industry Academia Conclave) held from 2<sup>6th</sup> to 28<sup>th</sup> October 2020.
- BIS Meeting on TX-05 on 20<sup>th</sup> October 2020.
- Attended workshop on Technical Textile Industry in India: Opportunities and Challenges held by IIT New Delhi on 14<sup>th</sup> October 2020.
- Participated as an Expert for COE-Agrotech in workshop on Technical Textile Industry in India: Opportunities and Challenges held by IIT New Delhi on 14<sup>th</sup> October 2020.
- Texcon 2020 (Inaugurated by Ministry of Textiles) dated 1<sup>st</sup> and 2<sup>nd</sup> December 2020.
- 26<sup>th</sup> DST CII Tech on Agritech on 8<sup>th</sup> December 2020.
- Delivered lecture on Agrotexiles during Webinar on Agrotexiles for smart farming & Entrepreneurship development conducted by University of Agricultural Sciences, Dharwad dated 10<sup>th</sup> Dec 2020.

- ZDHC East Asia Regional Conference, 15<sup>th</sup> to 17<sup>th</sup> December 2020.
- Delivered lecture on “Propylactic cultivation using Agrotextile” during online short term course conducted by Dr. B. R. Ambedkar National Institute of Technology dated 19<sup>th</sup> December 2020.
- FICCI TAG 2021, dated 15<sup>th</sup> January 2021.
- TXD 36-Technical Textiles for Medtech Applications, dated 18<sup>th</sup> January 2021.
- Online Conference on Technical Textiles, IMC Chamber dated 27<sup>th</sup> January 2021.
- Meeting of Industry Associations with BIS on Standardization of Textiles, dated 29<sup>th</sup> January 2021.
- Panel Discussion in Webinar on the theme of “Can India take the lead in MMF and Tech Textile?” during ITJ’s Textile Business E-Conference on 17<sup>th</sup> February 2021.
- Webinar on Global Bio-India scheduled from 1<sup>st</sup> to 3<sup>rd</sup> March 2021.
- Restek webinar on Gas Chromatography (GC) Technique on 9<sup>th</sup> March 2021.
- Bureau of Indian Standards, TXD 35 meeting on Formulation of Indian Standard on Anti Hail nets and bird protection dated 15<sup>th</sup> March 2021.
- TECHNOTEX 2021 Conference on Technical Textiles, 17<sup>th</sup> to 19<sup>th</sup> March 2021.

## PUBLICATIONS

SASMIRA has been publishing an in-house magazine named, Man-made Textiles in India (MMTI) for the past 64 years. The prime objective of magazine is to disseminate knowledge on textile and allied fields thereby benefiting the Educational Institute, Industry and the Society in specific.

The magazine is vividly subscribed by researchers, technologists, entrepreneurs, universities, textile product consumers and industry experts alike in India and abroad. Moreover, the magazine is abstracted by World Textile Abstracts, Textile Technology Digest and Indian Science Index and reproduced by several textile periodicals.

During the year 2020-2021 MMTI published technical articles, research papers, etc. on different segments of textiles and allied fields. In all 50 articles were published. In addition to technical papers, the magazine also covered textile kaleidoscope, technical textiles news and events calendar.

Theme “textile fabric” has been designed for cover page of MMTI for year 2021.

## SASMIRA'S EDUCATION & TRAINING PROGRAMME (SETP)

Sasmira's Education & Training Program (SETP) department is established to support the textile and allied industries by providing well trained manpower as per their need. The training programs are divided into three major categories viz. Fashion Designing, Textile Designing and Apparel Merchandising. The department is affiliated with University of Mumbai's GICED for full time UG courses for Fashion Designing and Textile Designing, as well as PG Diploma course for Apparel Merchandising.

SETP has also gearing up to commence the Bachelor of Design (B. Des.) in Fashion Design & in Textile Design from Academic Year 2021-22 in collaboration with University of Mumbai's GICED. In addition, SETP has autonomous full time diploma courses in Fashion Design Technology, and short duration courses in Apparel Merchandising, Visual Merchandising, Wet Processing, Weaving and Textile CAD. During this year, altogether 15 batches were conducted, including full time and part time courses.

SETP has also collaborated with Istituto Italiano Design (IID), Italy, one of the premier fashion institutes in Italy for the One Year duration Masters Diploma in Fashion Design & in Fashion Management to be initiated from the August 2021 academic session.

The details of admissions in the academic year 2020 – 2021 are as under:

FULL TIME COURSES		
Sr. No.	Name of the Course	No. of Students
1.	B.Sc. in Fashion Designing -B.Sc.(FD)-TY	43
2.	Under Graduate Diploma in Fashion Designing -UGDFD-FY	8
3.	Under Graduate Diploma in Fashion Designing -UGDFD-SY	14
4.	Diploma in Fashion and Apparel Design Technology- DFADT	6
5.	Advance Diploma in Fashion and Apparel Design Technology-ADFADT	8
6.	Under Graduate Diploma in Textile Designing -UGDTD-FY	3
7.	Post Graduate Diploma in Apparel Merchandising- PGDAM-FY	7
8.	Post Graduate Diploma in Apparel Merchandising - PGDAM-SY	5

PART TIME COURSES		
Sr. No.	Name of the Course	No. of Students
9.	Diploma in Apparel Merchandising - DAM	9
10.	Fashion Retailing & Visual Merchandising - FRVM	2
11.	Diploma in Wet Processing Technology - DWPT	4
12.	Diploma in Weaving Technology - DWT	7
13.	Advance Training In Computer Aided Textile Designing-ATCATD	17
14.	Misc. Admission(DBFD/DBFS)	2
<b>TOTAL No. of STUDENTS ADMISSION</b>		<b>135</b>

This year was a different year all together due to the countrywide lockdown declared by Govt. of India from 21<sup>st</sup> March, 2020. The entire teaching system was suddenly transferred from offline physical lectures to online digital lectures. The efficient faculty team had to quickly recalibrate to the online platform like Zoom and Google Meet for online lectures under the leadership of Mr. Krishnendu Datta, In-Charge, SETP. The department, focused towards preparing the students with more practical knowledge & exposure, got affected due to the lockdown. All Syllabi of theory subjects are covered though online teaching. Practical subjects like embroidery, pattern making, etc. are also been taught through online mode in spite of limited resources available with teachers as well as students. Jury presentation and online submission is also been conducted. Mr. Krishnendu Datta kept the spirit of the team intact by conducting online weekly meeting and conferences, encouraging every faculty members & staff. Webinars and online workshops like "Dyeing with Sulfur dyes", "Art in Everyday Life", "Self Introspection" etc. Online contest also been held and events like National Handloom Day is been celebrated digitally.

The only way we could promote our various courses in this pandemic period was through the social media platforms like Instagram, Facebook, YouTube, etc. We have posted course promotional artworks and artwork related to admissions, student's activity, Craft Visits, and Student's creative work to increase page engagement. SETP is switched to online mode for admissions too. Our website page was modified with online admission form and documents uploading system which is directly linked to SETP software.

But we severely lack proper publicity & this might adversely affect our admissions for Academic Year 2021-22, hence we have appealed earnestly to the management to consider so that we may market all our courses, especially the new B. Des courses in Fashion & Textile Design as well as the Master Diploma courses affiliated to IID, Italy.

## Details of the Events Conducted:

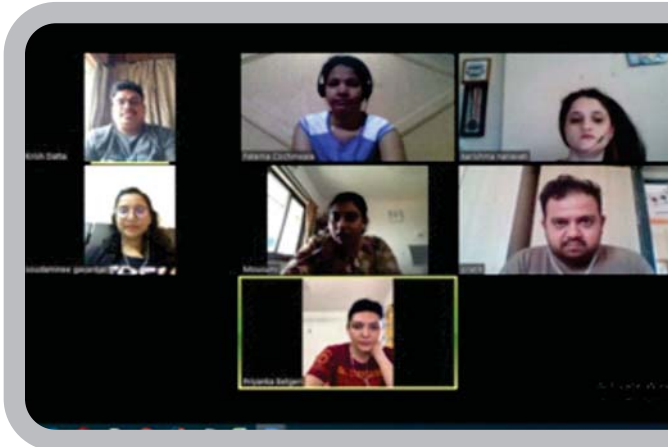
Date	Event Detail
15.04.2020	<p><b>Webinar on Fashion Knitwear Industry(Online Workshop)</b></p> <ul style="list-style-type: none"> <li>• Conducted on: 15.04.2020</li> <li>• Organized by: IICCI and Academia Costuma &amp; Moda, Italy</li> <li>• Participants: SETP Faculties and all final year's students.</li> </ul> <p>An online seminar was organized by IICCI and Academia Costuma &amp; Moda, Italy for spreading knowledge of Knitwear Industry in recent days and the portfolios of students of Academia Costuma &amp; Moda is published.</p>
17.04.2020	<p><b>Webinar on Professionalize your Personality (Online Workshop)</b></p> <ul style="list-style-type: none"> <li>• Conducted on: 17.04.2020</li> <li>• Organized by: Shreyans Mehta- IIM alumnus and Art of Living teacher</li> <li>• Participants: All SETP Final Year's Students.</li> </ul> <p>Mr. Shreyans Mehta has given an insight on:</p> <ul style="list-style-type: none"> <li>- Tips for Resume Creation</li> <li>- Ace the interview</li> <li>- Skills for Success</li> </ul> <p>These inputs would help our students to be more professional during facing job interviews.</p>
11.05.2020	<p><b>Research Methodology by Dr. Ritu Bhattacharya</b></p> <ul style="list-style-type: none"> <li>• Conducted on: 11.05.2020</li> <li>• Participants: SETP Faculties, Students of B. Sc. FD TY &amp; PGDAMSY</li> </ul> <p>A session conducted with Dr. Ritu Bhattacharya for guiding the students for Research methodology. These students are working on a research topic as a part of their final year's study.</p>
24.07.2020	<p><b>Webinar on Denim Coloration with Sulpher Dyes</b></p> <ol style="list-style-type: none"> <li>1) Conducted on: 24.07.2020</li> <li>2) Organized by: SF Dyes and SETP</li> <li>3) Venue: Zoom</li> <li>4) Participants: the students of technical courses from various college, people from Industry and our regular students were present in the webinar. Mr. Ashok Kumar and Mr. Sanjeev Mehta from SF Dyes were the key speaker for the same.</li> </ol>
05.08.2020	<p><b>Webinar on Art in Everyday Life by Ms. Debarati Roy</b></p> <ol style="list-style-type: none"> <li>1) Conducted on: 05.08.2020</li> <li>2) Venue: Zoom</li> <li>3) Participants: The webinar was open to all. Ms. Debarati who is an image consultant, corporate trainer, stylist and personal branding coach has addressed the students about various aspects of everyday clothing.</li> </ol>
07.08.2020	<p><b>Celebration of National Handloom Day</b></p> <ol style="list-style-type: none"> <li>1) Conducted on: 07.08.2020</li> <li>2) Venue: Google Meet</li> <li>3) Participants: All the students of various courses of SETP. We have invited 3 keynote speakers Viz. Avari Pandya, Aman Ali and Vikram Pawar form Kangra Weaving and Maheshwari Saree Weaving sectors for the online celebration of National Handloom Day.</li> </ol>
15.08.2020	<p><b>Food Art Contest</b></p> <ol style="list-style-type: none"> <li>1) Conducted on: 15.08.2020</li> <li>2) Venue: Online Submission</li> <li>3) Participants: Students across Mumbai</li> </ol>

15.09.2020	<p><b>Webinar on “Self Introspection”</b></p> <p>1) Conducted on: 15.09.2020  2) Venue: Online - Zoom  3) Speaker: Khushi Hinduja, DMTT Counsellor and a Parent Coach</p>
06.10.2020	<p><b>Webinar on Time Management</b></p> <p>1) Conducted on: 06.10.2020  2) Venue: Online - Zoom  3) Speaker: Khushi Hinduja, DMTT Counsellor and a Parent Coach</p>
15.01.2021	<p><b>FICCI TAG 2021 Conference</b></p> <p>SETP Faculty members had attended virtual conference on ‘Repositioning Indian Textiles and Strategizing for Growth in the Post Covid World’</p>
16.01.2021	<p><b>Faculty Development Program: Empowering teachers through training on Digital Education</b></p> <p>1) Conducted on: 16.01.2021  2) Organized by: Kiran Shrivastava  3) Venue: Online - Zoom</p>
06.02.2021	<p><b>Junior’s Fashion Week:</b></p> <p>SASMIRA have taken part in the Junior’s Fashion Week which was conducted at Westin Hotel, Goregaon, as Institute partner. Our students have worked there are backstage helper.</p>
10.02.2021	<p><b>Webinar on : “Contemporary Marketing of Fashion and Future Scope”</b></p> <p>Attendees: SICS- FY SY and TY students. (70)  Courses promoted: PGDAM DAM FRVM</p>
24.02.2021	<p><b>Career Guidance Webinar:</b></p> <p>In collaboration with UM-GICED  Date: 24<sup>th</sup> Feb, Wednesday  Participants: UGDFD SY, BSC TY  Topic: Careers in Fashion</p>
17.02.2021	<p><b>Fish Leather project</b></p> <p>Participating parties: Representatives from Sasmira Research Department, Ministry of Fishery, Team -SETP</p> <p><b>Task for SETP:</b></p> <ul style="list-style-type: none"> <li>To suggest innovative designs and provide specification sheets to make various sample products from Fish Leather.</li> <li>The products will be made by Shri Swami Samarth Enterprise, Mahapé who are leather product manufacturers (recommended by the Ministry of Fishery).</li> </ul> <p><b>Project Details:</b></p> <ul style="list-style-type: none"> <li>17<sup>th</sup> Feb- Meeting conducted between Research Department and SETP to understand the project.</li> <li>18<sup>th</sup> Feb-Meeting between Research Department, SETP and Manufacturers (Shri Swami Samarth Enterprise) to share design ideas, understand the leather properties etc.</li> <li>17<sup>th</sup> March- SETP Design team has shared designs and specification sheets.</li> </ul>

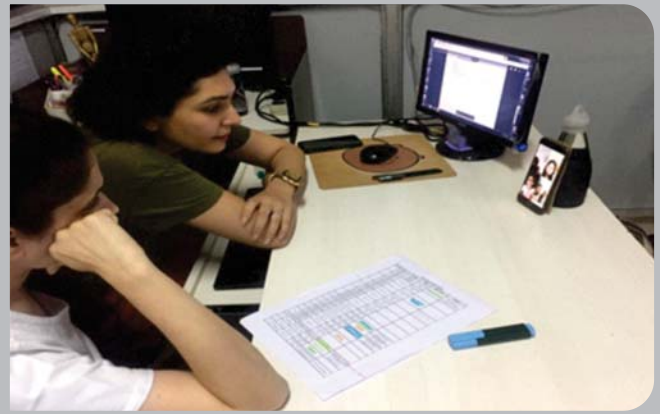
## ENCHANTÉ

The biggest event of SETP is Enchanté’, the Annual Fashion Show. It is conducted every year for showcasing the garments designed by final year fashion design students. Enchanté 2020 was scheduled in June 2020, but due to the pandemic it got postponed. Hence, the students have completed the making of Illustration and have been evaluated through Jury Presentation.

# GLIMPSES OF SETP 2020-2021



Weekly Meeting conducted Between SETP Team members



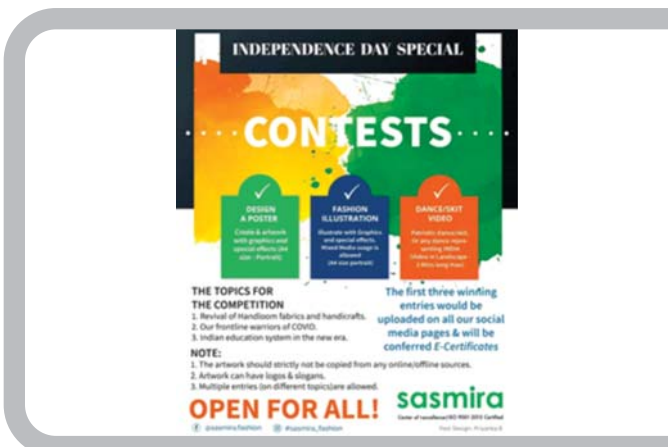
Faculties are mentoring the students for their design collection via video call



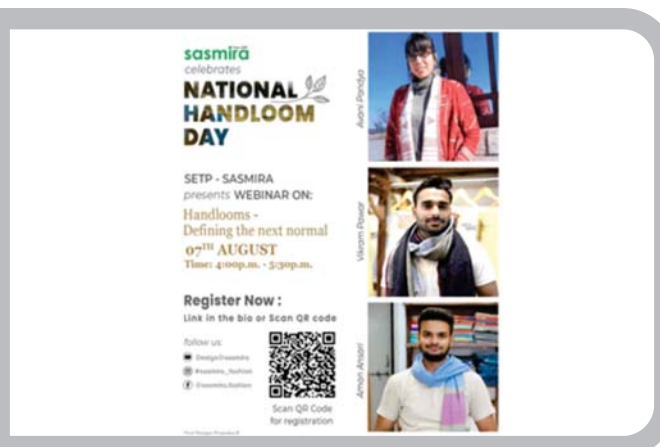
Glimpse of a Online Class



Webinar poster on Facebook Page



Online Contest on Facebook and Instagram Page



Handloom Day Celebration

## **SASMIRA'S OPERATION AT BHIWANDI (2020-2021)**

SASMIRA PSCs are fulfilling the need of the decentralized powerloom sector in Bhiwandi Cluster. The various services provided to the industry are:

- Quality Assurance Services
- Human Resource Development
- Consultancy and Trouble Shooting
- Seminars/Workshops
- Apparel Training Centre

SASMIRA PSCs have been creating awareness for implementation of comprehensive schemes for powerloom sector development under iPowertex India, besides, Technology Up gradation Fund (TUF), converged Group Insurance Scheme (GIS), etc.

However the decentralized powerloom sector in general is facing market slackness due to various reasons like non lifting of finished fabric, reduction in sale, labour problem, fluctuation in yarn prices etc.

Bhiwandi is the largest powerloom cluster in the country and value addition being a key demand in the textile market today, a lot of Garment Mfg. units are coming up in and around Bhiwandi. Accordingly to meet the requirement of the local garment industry, MoT, Gol has sanctioned Sasmira Powerloom Service Centre I at Bhiwandi with state-of-art Apparel Training facilities during 2009-10. The centre is conducting a certificate course in Basic Garment Manufacture (CBGM) and Advance Garment Manufacture & Fashion Designing (CAGMFD).

### **Activities :**

#### **PSC-I**

#### **Testing:**

During the year under review 1976 samples were tested against last year 3573.

#### **Technical Services/Design Development:**

There were 15 technical services against last year 37.

#### **Training**

No Training programmes were conducted in this financial year due to Covid-19 pandemic.

#### **PSC-II**

#### **Testing**

580 samples were tested in this year against last year 818 samples.

## **Technical Services / Design Development**

There were 2 technical services against last year 12.

### **Training**

No Training programmes were conducted in this financial year due to Covid-19 pandemic.

#### **Service rendered during the year 2019-2020 and 2020-2021 are as follows :**

Year	Testing [Samples]		Technical Services & Design Development	
	2019-20	2020-21	2019-20	2020-21
PSC-I	3573	1976	37	15
PSC-II	818	580	12	2
TOTAL	4391	2556	49	17

#### **Revenue generated from Technical services, Testing and Design Development: ( In Rupees)**

Year	2019-20	2020-21
PSC-I	7,74,570/-	4,51,250/-
PSC-II	1,88,710/-	1,09,270/-

#### **Revenue generated from Training : (In Rupees)**

No revenue generated from training programmes as no training programmes were conducted in this financial year due to Covid-19 pandemic.

#### **Total Revenue Generated:**

Year	2019-20	2020-21
PSC-I	9,14,470/-	4,51,250/-
PSC-II	2,28,710/-	1,09,270/-

## **Converged Group Insurance Schemes (GIS)**

Ministry of Textiles has taken initiative for the insurance coverage of life of Powerloom Worker in various textile cluster Under this scheme a person has to pay Rs.80/- only as a yearly premium towards the policy and the benefits include Rs.2,00,000/- for natural death, for accidental death 4,00,000/- permanent disability Rs.2,00,000/- , for partial disability Rs.1,00,000/-. Besides, 2 children of the policy holder may get Rs.1200/- as scholarship annually if the ward studies between 9<sup>th</sup> std. to 12<sup>th</sup>. This service requires lot of promotional activities like meeting entrepreneurs, workers groups and convincing them about the scheme.

This service is co-ordinated by the PSC for the Bhiwandi cluster. As per instructions from the TxC office, the enrollement of persons are stopped under the scheme. Therefore, in this financial year no persons have been enrolled under the scheme.

# **sasmira**

**THE SYNTHETIC & ART SILK MILLS'  
RESEARCH ASSOCIATION**

**(Registered under the Societies Registration Act XXI of 1860 and  
Bombay Public Trust Act 1950)**

**ANNUAL ACCOUNTS 2020-2021**





# **AUDITOR'S REPORT TO THE MEMBERS OF THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION**

1. We have audited the attached Balance Sheet of THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION (SASMIRA) as at 31st March, 2021 and also the annexed Income and Expenditure Account for the year ended on that date along with our reports on financial statements of individual sections of SASMIRA i.e SIMSR, SICS, SBS and SIMMT. These financial statements are the responsibility of the SASMIRA's management. Our responsibility is to express an opinion on these financial statements based on our audit.
2. We conducted our audit in accordance with auditing standards generally accepted in India. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.
3. We report that:
  - A. We have obtained all the information and explanations, which to the best of our knowledge and belief, were necessary for the purpose of our audit;
  - B. We have relied on the report of internal auditor of the Association to the extent of matters covered thereunder.
  - C. The Balance Sheet and Income and Expenditure Account dealt with by this report are in agreement with the books of accounts;
  - D. Attention is invited to the following
    - (a) It is pertinent to mention that the Association has outstanding income tax demand payable for AY 2010-11 and AY 2015-16. The Income tax department has denied the benefit of exemption claimed by the Association under section 11 of the Act by invoking the provisions of section 2(15) of the Act which was introduced w.e.f 2009-10.

For AY 2010-11 the reassessment was completed on 31-03-2016 and demand of Rs.45,54,340/- is raised by the income tax department. For AY 2015-16, regular scrutiny assessment was completed on 18-12-2017 on similar lines and demand of Rs.1,59,97,640/- is raised by the income tax department. The demand for both the years is challenged by the Association and the appeals are pending before the first appellate authority.

..2..

For AY 2013-14 revision proceedings under section 263 have been initiated on 17.02.2021 and the Ld. AO has passed an order dated 05.03.2021 for which the Association has filed an appeal with the Honorable Income Tax Appellate Tribunal of Mumbai.

Since the matter is still pending before the first and second appellate authority it was not possible to determine the outcome of above income tax disputes as on the balance sheet date, therefore, the Association has not made any provision in the financial statements, nor the Association has disclosed the same as a contingent liability. An adverse outcome of the appeal may have a significant impact on the Association financial position.

According to the new amendments in the Finance Act, 2020, Institute has filed Form 10A and received the order in Form 10AC granting provisional registration under section 12A of the Income Tax Act on 31.05.2021 which is valid till 31/03/2026.

Subject to the above and notes to accounts forming part of financial statement, in our opinion and to the best of our information and according to the explanations given to us, the accounts read with other notes thereon give a true and fair view in conformity with the accounting principles generally accepted in India:

- (a) in the case of the Balance Sheet, of the state of affairs of the Association as at 31st March, 2021 and
- (b) in the case of General Income and Expenditure Account, of the Surplus for the year ended on that date.

FOR SAVANT & CO.  
CHARTERED ACCOUNTANTS.

FIRM REGISTRATION NO: 109356W

(R. M. SAVANT)  
PROPRIETOR  
(Membership No.030010)  
UDIN: 21030010AAAACH6151

Place: Mumbai  
Date: 1st September 2021

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION**  
**BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2021**

Sr. No.	LIABILITIES	Current Year 31-03-2021 Amount (Rs.)	Previous Year 31-03-2020 Amount (Rs.)
1	<b>RESEARCH FUND :</b> (As per Schedule "A")	891,562,340	946,640,001
2	<b>GRANT-IN-AID (TO BE SPENT)</b> (As per Schedule "B") Govt. of India, Ministry of Textiles, A & MMT	15,154,030	12,968,597
3	<b>BUILDING FUND</b> Opening Balance (Refer Notes to accounts) 241,304,637 Add: Interest received during the year -	241,304,637	241,047,715 256,922 241,304,637
4	<b>NON-CURRENT LIABILITIES</b> Bank OD Facility (Allahabad Bank A/c 50505590130)	95,110,712	58,107,208
5	<b>LIABILITIES :-</b> (A) Sundry Creditors 31,997,908 (B) Other Liabilities 2,493,151 (C) Advances and Deposits 32,877,120	67,368,179	49,106,002 13,028,697 35,427,046 97,561,744
	(D) Leave Encashment 1,485,354 Add Interest earned 79,490	1,564,844	1,390,259 95,095 1,485,354
6	<b>INCOME &amp; EXPENDITURE ACCOUNT BALANCE</b> Opening Balance 232,274,441 Add: Surplus/(Deficit) for the year 860,069 Less: Impairment of Assets 222,407	232,912,104	234,003,459 (1,729,018) - 232,274,441
	<b>TOTAL</b>	<b>1,544,976,846</b>	<b>1,590,341,982</b>

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION**  
**BALANCE SHEET AS ON 31<sup>ST</sup> MARCH, 2021**

Sr. No.	ASSETS	Current Year 31-03-2021 Amount (Rs.)	Previous Year 31-03-2020 Amount (Rs.)
7	<b>FIXED ASSETS :</b> (As per Schedule "C")		
	PART I	544,818,157	550,903,283
	PART II	54,320,062	54,320,062
	PART III	217,936,509	217,936,509
	PART IV	2,208,734	8,079,690
	PART V	-	1,238,718
	PART VI	-	4,115,960
	PART VII	425,696,032	425,696,032
	PART VIII	94,824,064	94,824,064
		<b>1,339,803,558</b>	<b>1,357,114,318</b>
8	<b>INVESTMENTS : (AT COST)</b>		
	(A) 6 years National Saving Certificate of Rs.100 each	1,000	1,000
	(B) 8% Savings (Taxable Bonds) (Pledged against the O/d facility with Allahbad Bank Nov 2019)	100,000,000	100,000,000
	(C) Against Funds - Refer Notes to accounts		
	Savings Account (Building Fund)	-	3,461
	Fixed Deposit (Leave Encashment)	1,552,413	1,475,598
9	<b>CURRENT ASSETS :</b> (As per Schedule "D")	103,619,875	131,747,605
	<b>TOTAL</b>	<b>1,544,976,846</b>	<b>1,590,341,982</b>

Notes on Balance Sheet and Income And Expenditure Account - Refer Schedule "E"  
As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
PROPRIETOR  
Membership No. 030010

U. K. DAS  
SR. ACCOUNTS OFFICER

DR. U. K. GANGOPADHYAY  
EXECUTIVE DIRECTOR

M. R. MEHTA  
VICE-PRESIDENT

M. H. DOSHI  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
GENERAL INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021**

**NO.I**

Sr. No.	Expenditure	Current Year	Previous Year	Sr. No.	Income	Current Year	Previous Year
		31-3-2021	31-3-2020			31-3-2021	31-3-2020
		Amount (Rs)	Amount (Rs)			Amount (Rs)	Amount (Rs)
1	<b>Payment to Staff</b>			33	Subscription	161,500	176,500
	i. Salaries	24,392,917	24,227,421	34	Testing Fees	6,157,196	6,171,037
	ii. Contribution to PF & Others	2,095,876	2,072,897	35	Technical Service Charges	705,100	1,804,059
	iii. Contribution to Gratuity Fund	6,650,000	700,000	36	Income from Training Courses (SETP)	10,559,687	15,781,243
	iv. Staff Welfare & Council Meet Expenses	326,217	1,812,351	37	Interest	8,239,479	8,301,773
		33,465,010	28,812,669	38	Income from Publication	56,677	132,837
2	Electricity Charges	884,661	963,559	39	Contribution towards Economic Rent from Technical Institute	60,180	60,180
3	Rates and Taxes	618,232	845,496	40	Auditorium Hire Charges	659,065	1,579,820
4	Insurance	297,182	235,342	41	Hoarding Site & Service Charges	-	4,800,000
5	Auditor's Honorarium	130,000	130,000	42	Licence Fees / Rent	10,152,584	13,302,089
6	Printing, Stationery, Postage, Telegram & Telephone Charges	350,621	392,178	43	Recurring Grant from Ministry of Textiles, Govt. of India (Refer Schedule "B")	22,000,000	20,000,000
7	Pilot Plant & Fabrication Expenses	106,400	242,740	44	General Donation	10,000,000	-
8	Repairs & Maintenance :			45	Income From Khadi & Village Industries Commission	-	294,140
	i. Building	4,540,417	213,792	46	Income from Industry's Project	1,412,947	1,631,980
	ii. Lift	-	4,500	47	Income From Rajiv Gandhi Science & Technology Commission (RGSTC)	426,445	-
	iii. Electrical Maintenance	860	33,715	48	Miscellaneous Income	931,890	100,971
	iv. General Repairs & Maintenance	108,777	30,916	49	Income from Educational Activity - SICS	8,798,300	11,459,550
	v. Computer Maintenance	54,420	37,350	50	Income from Educational Activity - SIMSR	7,311,687	8,640,400
		4,704,474	320,273	51	Excess of Income over Expenditure of SBS	9,458,729	955,219
9	Motor Car, Travelling, Conveyance & Transportation	234,150	220,326	52	Excess of Income over Expenditure of SIMSR	4217137	-
10	Expenses for Training Courses (SETP)	13,343,659	16,144,754	53	Excess of Expenditure over Income	-	1,729,018
11	Expenses for Publication	245,040	389,400				
12	Expenses for Khadi Village Industry Commission	-	533,497				
13	Expenses For Rajiv Gandhi Science & Technology Commission (RGSTC)	426,445	-				
14	Expenses for Industry's Project	1,412,947	-				
15	Legal & Professional Fees	1,289,000	1,028,850				
16	Expenses of Fashion Show	-	810,760				
17	Housekeeping Charges	226,033	173,400				
18	Library Expenses (Including Cost of Books purchased)	-	24,731				
19	Membership Subscription Written off	-	88,004				
20	Miscellaneous Expenses	986,601	431,095				
21	Depreciation	651,325	926,675				
22	Recruitment Expenses	-	235,314				
23	Interest on Overdraft	5,159,119	-				
24	Activity Fees Receivable written off	-	210,000				
25	Excess Of Expenditure over income of COE (No.II)	32,582,518	22,804,631				
26	Excess of Expenditure over Income of 100% Funded Govt.of India Project A/c(NO-III)	142,287	9,487,768				
27	Excess of Expenditure over Income of "SASMIRA'S Regional Powerloom Service Centre - Bhiwandi-I" (NO.IV)	1,235,421	1,155,551				
28	Excess of expenditure over Income of "SASMIRA'S Regional Powerloom Service Centre - Bhiwandi-II" (NO.V)	804,784	1,023,741				
29	Excess of Expenditure over Income of COE NER (No. VI)	-	-				
30	Excess of Expenditure over Income of SIMSR	-	5,318,037				
31	Excess of Expenditure over Income of SICS	1,152,625	3,972,025				
32	Excess of Income over Expenditure	860,069	-				
	<b>TOTAL</b>	<b>101,308,603</b>	<b>96,920,815</b>		<b>TOTAL</b>	<b>101,308,603</b>	<b>96,920,815</b>

Notes on Balance Sheet and Income And Expenditure Account - Refer Schedule "E"

As per our Report of even date.,

**For Savant & Co.,**

**Chartered Accountants**

Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.**  
**SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "A"**

Funds	Amount (Rs)	Current Year 31-03-2021 Amount (Rs)	Previous Year 31-03-2020 Amount (Rs)
<b>RESEARCH FUND :</b>			
(A) General Fund :			
(a) Balance as per last year	61,781,999		61,126,999
(b) Contribution received during the year (Includes Admission (Entrance) Fees, Initial Contribution & Donations)	10,000		655,000
(c) Economic Rent from Technical Institute - Transfer from Income & Expenditure Account	-		-
		61,791,999	61,781,999
(B) Contribution towards Machinery : (From Textile Machinery Manufacturers Association)			
Balance as per last year	50,000		50,000
Less: Impairment of Asset	50,000		-
		-	50,000
(C) Capital Grant Account :			
(i) Powerloom Service Centre I at Bhiwandi - Balance as per last year	3,424,227		3,424,227
Add: Received during the year	-		-
Less: Impairment of Asset	1,424,227		-
		2,000,000	3,424,227
(ii) Powerloom Service Centre II at Bhiwandi - Balance as per last year	138,298		138,298
Less: Impairment of Asset	138,298		-
		-	138,298
(iii) Computer Aided Design Centre at Bhiwandi			
Balance as per last year	4,100,000		4,100,000
Less: Impairment of Asset	4,100,000		-
		-	4,100,000
(iv) 100% Funded GOI R&D Projects & Training Programme from Ministry of Textiles			
Balance as per last year	57,737,307		55,813,297
Add: Received during the Year	-		1,924,010
Less: Impairment of Asset	28,303,896		-
		29,433,411	57,737,307
(D) Capital Grant from Department of Textile , Gov of Maharashtra			
Balance as per last year	8,000,000		500,000
Add: Received during the Year	-		7,500,000
		8,000,000	8,000,000
(E) Capital Grant from Khadi & Village Industries Commission			
Balance as per last year	368,600		262,740
Add: Received during the Year	-		105,860
		368,600	368,600
(F) Capital Grant from Textile Committee (Modernisation)			
Balance as per last year	14,958,068		14,958,068
Less: Impairment of Asset	14,958,068		-
		-	14,958,068
(G) Capital Grant from Development Commissioner of Handloom - Govt. of India (HRD)			
Balance as per last year	1,050,000		1,050,000
Less: Impairment of Asset	1,050,000		-
		-	1,050,000
(H) Capital Grant (S & T) :-			
Balance as per last year	111,600		111,600
Less: Impairment of Asset	111,600		-
		-	111,600
(I) Capital Grant Modernisation (PSC-BI) :-			
Balance as per last year	1,089,121		1,089,121
Less: Impairment of Asset	1,089,121		-
		-	1,089,121
(J) Capital Grant Modernisation (PSC-BII) :-			
Balance as per Last Account	1,116,451		1,116,451
Less: Impairment of Asset	1,116,451		-
		-	1,116,451
<b>BAL C/F</b>		<b>101,594,010</b>	<b>153,925,672</b>

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.**  
**SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

Funds	Rupees	Current Year 31-03-2021 Rupees	Previous Year 31-03-2020 Rupees
BAL B/F		101,594,010	153,925,672
(K) Capital Contribution by:			
(a) Government of India Balance as per last year	-		-
(b) Industry (D. P.) Balance as per last year	-		-
	-		-
Less : Transferred to I & E A/C	-		-
		-	-
(L) Capital Grant (C O E):	216,448,234		216,448,234
Add: Received during the Year	-		-
	216,448,234		216,448,234
(M) Capital Grant (A T C):	2,746,000		2,746,000
Less: Impairment of Asset	2,746,000		-
		-	2,746,000
(N) Capital Grant (ISDS):			
Balance as per Last year		53,000,000	53,000,000
(O) Capital Grant (C O E - NER):			
Balance of Last Year	425,696,032		368,000,000
Add: Received during the Year			
Distribution of Agrotexile Kit	-		53,499,782
Establishment of Demo Centre	-		4,196,250
		425,696,032	425,696,032
(P) Capital Grant (C O E - ROI):			
Balance of Last Year	94,824,064		94,824,064
Add: Received during the Year	-		-
		94,824,064	94,824,064
<b>TOTAL</b>		<b>891,562,340</b>	<b>946,640,001</b>

As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**

Firm Registration No. 109356W

MUMBAI :  
 1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
 PROPRIETOR  
 Membership No. 030010

U. K. DAS  
 SR. ACCOUNTS OFFICER

DR. U. K. GANGOPADHYAY  
 EXECUTIVE DIRECTOR

M. R. MEHTA  
 VICE-PRESIDENT

M. H. DOSHI  
 PRESIDENT



**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.**  
**SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "B"**

Funds	Amount (RS)	Current Year 31-03-2021 Amount (RS)	Previous Year 31-03-2020 Amount (RS)
<b>GRANT-IN-AID : (To be Spent) :</b>			
<b>I From Govt. of India, Ministry of Textiles, A&amp;MMT Section</b>			
Balance as per last year	(i) PLAN 12,968,597		33,411,256
Balance as per last year	(ii) NON PLAN -		-
Add : Received during the year	(i) PLAN 4,369,772		58,713,652
Received during the year	(ii) NON PLAN 22,000,000		20,000,000
	39,338,369		112,124,908
Add: Interest for the year	1,021,831		860,544
Less: Interest Paid on unspent Amount of NER	-		(11,114,487)
	40,360,200		101,870,965
Less : Amount utilised during the year			
(A) Transfer to SASMIRA'S General Income & Expenditure Account (Non-Plan)	22,000,000		20,000,000
(B) Transfer to SASMIRA'S 100% Funded Project Income & Expenditure Account (Plan)	-		-
(C) Transfer To SASMIRA'S COE -NER SCHEME Income & Expenditure Account (Plan)	1,366,778		1,657,326
(D) Capital Grant Received - Spent for Fixed Assets (PLAN) (Refer Schedule "C" Part I Item No D )	-		1,924,010
(E) Capital Grant Received - Spent for Fixed Assets (Dot Maha) (Refer Schedule "C" Part I Item No E )	-		7,500,000
(F) Capital Grant Received - Spent for Fixed Assets (COE-NER) (Refer Schedule "C" Part VII )	-		57,696,032
(G) Capital Grant Received - Spent for Fixed Assets (PSC BI) (Refer Schedule "C" Part IV )	-		125,000
(H) Transferred to DST Project	1,412,947		-
(I) Transferred to RGSTC Project	426,445		-
	25,206,170		
		15,154,030	12,968,597
<b>II From Government of India, Ministry of Textiles, W &amp; P Section :</b>			
Powerloom Service Centres at Bhiwandi :			
Balance as per last year	-		-
Received during the year	3,400,000		3,400,000
	3,400,000		3,400,000
Less : Transfer to Powerloom Service Centre at Bhiwandi I & II Income & Expenditure Accounts	3,400,000		3,400,000
		-	-
<b>TOTAL</b>		<b>15,154,030</b>	<b>12,968,597</b>

As per our Report of even date.,

**For Savant & Co.,  
Chartered Accountants**

Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
PROPRIETOR  
Membership No. 030010

U. K. DAS  
SR. ACCOUNTS OFFICER

DR. U. K. GANGOPADHYAY  
EXECUTIVE DIRECTOR

M. R. MEHTA  
VICE-PRESIDENT

M. H. DOSHI  
PRESIDENT

**SCHEDULE "C"  
PART - I**

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

FIXED ASSETS	Dep Rate %	COST			DEPRECIATION				Net Block As on 31-03-2021	Net Block As on 31-03-2020				
		As on 01-04-2020	Additions During the year	Disposal Written-off	As on 31-03-2021	Accumulated Dep Assets Written-off	Impairment of Assets	Accumulated Dep up to 31-03-2020			Depreciation for the year	Accumulated Dep up to 31-03-2021		
(A) OUT OF GENERAL FUND :														
1 Land - Leasehold Sasmira Refer Note 1	-	401,912	-	-	401,912	-	-	-	-	-	-	401,912	401,912	
2 SASMIRA Building (Refer Note 1)	10%	4,190,418	-	-	4,190,418	-	-	4,190,418	-	-	-	4,190,418	-	
3 Capital Work in Progress(Building)	-	460,408,329	38,648,136	-	499,056,465	-	-	-	-	-	-	499,056,465	460,408,329	
4 Solar Panel System	40%	3,081,040	-	-	3,081,040	-	-	2,240,656	336,154	-	-	504,230	840,384	
5 SASMIRA Lifts	15%	286,012	-	-	286,012	-	-	286,012	286,012	-	-	2,576,810	-	
6 Machinery & Laboratory Equipments	15%	6,599,658	-	-	6,599,658	-	-	5,405,189	94,084	-	-	533,140	627,224	
7 Electric Fittings & Equipments	10%	444,096	-	-	444,096	-	-	345,882	9,821	-	-	88,392	98,214	
8 Furniture & Fixtures	10%	4,875,727	-	-	4,875,727	-	-	4,040,832	83,490	-	-	751,406	834,896	
9 Library	10%	94,104	-	-	94,104	-	-	94,104	94,104	-	-	29,478	34,680	
10 Projector	15%	502,043	-	-	502,043	-	-	467,363	5,202	-	-	97,600	114,823	
11 Tubewell	15%	26,450	-	-	26,450	-	-	26,450	26,450	-	-	4,055	-	
12 Machine Tools (Book Bindings)	15%	4,055	-	-	4,055	-	-	4,055	4,055	-	-	4,055	-	
13 Office Equipments	15%	2,696,079	-	-	2,696,079	-	-	2,581,256	17,223	-	-	76,961	-	
14 Fax Machine	15%	76,961	-	-	76,961	-	-	76,961	76,961	-	-	639,251	387,080	
15 Motor Cars	15%	1,026,331	-	-	1,026,331	-	-	570,942	68,308	-	-	5,939	4,488	
16 Television	15%	68,000	-	-	68,000	-	-	68,000	68,000	-	-	175,412	206,367	
17 Security Carmera	15%	14,000	2,499	-	16,499	-	-	9,512	1,048	-	-	7,560	12,600	
18 Mamequin & Dress Form - SEP	15%	427,388	-	-	427,388	-	-	32,054	30,955	-	-	27,440	43,753	
19 Software	40%	35,000	-	-	35,000	-	-	22,400	5,040	-	-	43,753	-	
(B) Machinery ;(Out of Contribution by Textile Machinery Manufacturers Association)														
(C) Developments Commissioners, Handloom - Govt. of India (HRD)														
1 Amberbarkhas & Belhis		18,700	-	-	18,700	-	-	18,700	-	-	-	18,700	18,700	
2 Handloom & Dobbies		68,844	-	-	68,844	-	-	68,844	-	-	-	68,844	68,844	
3 Handloom Pattern & Design		25,000	-	-	25,000	-	-	25,000	-	-	-	25,000	25,000	
4 Office Equipments		10,476	-	-	10,476	-	-	10,476	-	-	-	10,476	10,476	
5 Furniture & Fixtures		36,128	-	-	36,128	-	-	36,128	-	-	-	36,128	36,128	
6 Electric Fittings & Equipments		6,922	-	-	6,922	-	-	6,922	-	-	-	6,922	6,922	
(D) OUT OF 100% FUNDED GOVERNMENT OF INDIA R & D PROJECTS:														
1 Machinery & Laboratory Equipments		56,511,950	-	-	56,511,950	-	-	28,653,261	-	-	-	27,858,689	56,511,950	
2 Electric Fittings & Equipments		5,226,487	-	-	5,226,487	-	-	4,980,541	-	-	-	5,226,487	245,946	
3 Furniture & Fixtures (Project Others)		1,345,199	-	-	1,345,199	-	-	1,143,419	-	-	-	201,780	201,780	
4 Machinery & Laboratory Equipments (Projects other) - Refer Note 2		6,651,231	-	-	6,651,231	-	-	1,468,449	-	-	-	5,182,782	5,182,782	
5 Machinery & Equipment -DST Project (Modernisation)		1,133,025	-	-	1,133,025	-	-	14,975,404	-	-	-	1,133,025	1,133,025	
6 Machinery & Laboratory Equipments (Modernisation)		14,975,404	-	-	14,975,404	-	-	14,975,404	-	-	-	14,975,404	14,975,404	
(E) 1 Equipment - Dot Government of Maharashtra		8,034,667	-	-	8,034,667	-	-	-	-	-	-	8,034,667	8,034,667	
(F) 1 KV/C - Equipment		368,600	-	-	368,600	-	-	-	-	-	-	368,600	368,600	
<b>TOTAL RUPEES AS AT 31.03.2021</b>		<b>579,713,989</b>	<b>38,650,635</b>	-	<b>618,364,624</b>	-	-	<b>24,492,936</b>	<b>44,084,434</b>	<b>28,810,707</b>	<b>651,325</b>	<b>73,546,466</b>	<b>544,818,157</b>	<b>550,903,283</b>
<b>TOTAL RUPEES AS AT 31.03.2020</b>		<b>498,959,827</b>	<b>81,874,123</b>	<b>1,119,960</b>	<b>579,713,990</b>	-	-	<b>24,492,936</b>	<b>926,675</b>	<b>28,810,707</b>	<b>28,810,707</b>	<b>550,903,283</b>	<b>471,075,794</b>	

Note 1: The market value of land leasehold and SASMIRA building as on 25.10.2017 is Rs. 148.77 Cr  
 Note 2: Including instrument worth Rs. 17,72,465 received free of cost from Q-Panel Lab Products USA.  
 Note 3: Solar Panel System is put to use from FY 2018-19

As per our Report of even date.,

**For Savant & Co.,  
Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI : 1<sup>st</sup> September 2021  
 RAVINDRA M. SAVANT PROPRIETOR  
 U. K. DAS SR. ACCOUNTS OFFICER  
 DR. U. K. GANGOPADHYAY EXECUTIVE DIRECTOR  
 M. R. MEHTA VICE-PRESIDENT  
 M. H. DOSHI PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF ISDS - EDUCATIONAL PROGRAMME  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - II**

Sr. No.	Fixed Assets	Cost		
		As at 01-04-2020	Of ADDITIONS / TRANSFER	As at 31-3-2021
1	Plant & Machinery	45,539,970	-	45,539,970
2	Computer/ Software	3,835,059	-	3,835,059
3	Library Electrical Fitting & A.C	1,359,247	-	1,359,247
4	Classroom Equipment	1,546,253	-	1,546,253
5	Furnitures & Fixtures- Library Room	1,503,853	-	1,503,853
6	Office Equipment	87,564	-	87,564
7	Furnitures & Fixtures	448,116	-	448,116
<b>Total as at 31.03.2021</b>		<b>54,320,062</b>	<b>-</b>	<b>54,320,062</b>
Total as at 31.03.2020		54,320,062	-	54,320,062

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF CENTRE OF EXCELLANCE- AGROTEXTILES ACCOUNT  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - III**

Sr. No.	FIXED ASSETS	COST		
		As at 01-04-2020	Of ADDITIONS / TRANSFER	As at 31-3-2021
1	Laboratory Equipments	202,553,073	-	202,553,073
2	Books & Periodicals	3,317,691	-	3,317,691
3	Video Conferencing System	1,584,415	-	1,584,415
4	Server Room	1,382,004	-	1,382,004
5	Projectors	1,821,326	-	1,821,326
6	Audio Video Film	5,850,000	-	5,850,000
7	Demo Center	150,000	-	150,000
8	Demonstration Model	585,000	-	585,000
9	Popup Model	693,000	-	693,000
<b>Total as at 31.03.2021</b>		<b>217,936,509</b>	<b>-</b>	<b>217,936,509</b>
Total as at 31.03.2020		217,936,509	-	217,936,509

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
**PROPRIETOR**  
Membership No. 030010

**U. K. DAS**  
**SR. ACCOUNTS OFFICER**

**DR. U. K. GANGOPADHYAY**  
**EXECUTIVE DIRECTOR**

**M. R. MEHTA**  
**VICE-PRESIDENT**

**M. H. DOSHI**  
**PRESIDENT**

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF POWERLOOM SERVICE CENTRE - I, AT BHIWANDI.  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - IV**

Sr. No.	Fixed Assets	Cost			Deductions Impairment of Assets	As at 31-3-2021
		As at 01-04-2020	Of Transfer	Of Additions		
1	Laboratory Equipments	864,186	-	-	328,142	536,044
2	(a) Laboratory Equipments (MOD / TC)	963,151	-	-	963,151	-
	(b) Laboratory Equipments (MOD / MOT)	2,427,100	-	-	7,544,10	1,672,690
3	Furniture & Fixtures	82,420	-	-	82,420	-
4	Airconditioners	31,591	-	-	31,591	-
5	Airconditioners (MOD)	125,970	-	-	125,970	-
6	Calculating Machine	639	-	-	639	-
7	(a) Electric Fittings & Equipments	173,682	-	-	173,682	-
	(b) Electric Fittings & Equipments (MOD / MOT)	309,421	-	-	309,421	-
8	Office Equipments	165,248	-	-	165,248	-
9	Assets at ATC					
	(a) Airconditioners	194,550	-	-	194,550	-
	(b) Electric Fittings and Equipments	194,947	-	-	194,947	-
	(c) Furnitures & Fixtures	329,248	-	-	329,248	-
	(d) Office Equipments	100,214	-	-	100,214	-
	(e) Laboratory Equipments	2,117,322	-	-	2,117,322	-
	<b>Total as at 31.03.2021</b>	<b>8,079,690</b>	<b>-</b>	<b>-</b>	<b>5,870,955</b>	<b>2,208,734</b>
	Total as at 31.03.2020	8,079,690	-	-	-	8,079,690

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
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**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF POWERLOOM SERVICE CENTRE - II, AT BHIWANDI.  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - V**

Sr. No.	Fixed Assets	Cost			Deductions Impairment of Assets	As at 31-3-2021
		As at 01-04-2020	Of Transfer	Of Additions		
1	Airconditioners	34,220	-	-	34,220	-
2	Airconditioners (MOD/TC)	50,600	-	-	50,600	-
3	Calculating Machine	470	-	-	470	-
4	Electric Fittings & Equipments	31,373	-	-	31,373	-
5	Furniture & Fixtures (MOD/TC)	33,000	-	-	33,000	-
6	Furniture & Fixtures	38,090	-	-	38,090	-
7	Office Equipment	1,114	-	-	1,114	-
8	Laboratory Equipments (MOD/TC)	1,014,806	-	-	1,014,806	-
9	Laboratory Equipments	<b>35,045</b>	-	-	<b>35,045</b>	-
<b>Total as at 31.03.2021</b>		<b>1,238,718</b>	-	-	<b>1,238,718</b>	-
Total as at 31.03.2020		1,238,718	-	-	-	1,238,718

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
PROPRIETOR  
Membership No. 030010

U. K. DAS  
SR. ACCOUNTS OFFICER

DR. U. K. GANGOPADHYAY  
EXECUTIVE DIRECTOR

M. R. MEHTA  
VICE-PRESIDENT

M. H. DOSHI  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF SASMIRA'S COMPUTER AIDED DESIGN CENTRE, AT BHIWANDI  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - VI**

Sr. No.	Fixed Assets	Cost			Deductions Impairment of Assets	As at 31-3-2021
		As at 01-04-2020	Of Transfer	Of Additions		
1	Air conditioning	210,120	-	-	210,120	-
2	Design Computers	3,076,865	-	-	3,076,865	-
3	Electric Fittings & Equipments	140,405	-	-	140,405	-
4	Furniture & Fixtures	478,021	-	-	478,021	-
5	Machinery & Equipments	210,549	-	-	210,549	-
<b>Total as at 31.03.2021</b>		<b>4,115,960</b>			<b>4,115,960</b>	
Total as at 31.03.2020		4,115,960	-	-	-	4,115,960

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
PROPRIETOR  
Membership No. 030010

U. K. DAS  
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M. H. DOSHI  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF SASMIRA'S CENTRE OF EXCELLANCE- NORTH EAST REGION  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - VII**

Sr. No.	Fixed Assets	Cost		
		As at 01-04-2020	Of Additions / Transfer	As at 31-3-2021
1	Distribution of Agrotextile Kit	371,224,478	-	371,224,478
2	Establishment of Demo Centre	54,471,554	-	54,471,554
<b>Total as at 31.03.2021</b>		<b>425,696,032</b>	<b>-</b>	<b>425,696,032</b>
Total as at 31.03.2020		378,273,921	47,422,111	425,696,032

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
PROPRIETOR  
Membership No. 030010

U. K. DAS  
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M. H. DOSHI  
PRESIDENT



**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
FIXED ASSETS OF SASMIRA'S CENTRE OF EXCELLANCE- REST OF INDIA  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "C"  
PART - VIII**

Sr. No.	Fixed Assets	Cost		
		As at 01-04-2020	Of Additions / Transfer	As at 31-3-2021
1	Distribution of Agrotextile Kit	84,533,154	-	84,533,154
2	Establishment of Demo Centre	9,778,910	-	9,778,910
3	Training Charges	512,000	-	512,000
<b>Total as at 31.03.2021</b>		<b>94,824,064</b>	<b>-</b>	<b>94,824,064</b>
Total as at 31.03.2020		94,824,064	-	94,824,064

**For Savant & Co.,  
Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

RAVINDRA M. SAVANT  
PROPRIETOR  
Membership No. 030010

U. K. DAS  
SR. ACCOUNTS OFFICER

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PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION.  
SCHEDULE FORMING PART OF THE BALANCE SHEET AS AT 31<sup>ST</sup> MARCH, 2021**

**SCHEDULE "D"**

Particulars	Rs.	Current Year 31-3-2021 Rs.	Previous Year 31-3-2020 Rs.
<b>CURRENT ASSETS, ADVANCES AND DEPOSITS :</b>			
<b>(A) CURRENT ASSETS :</b>			
(a) SUNDRY DEBTORS :			
(Unsecured - Considered Good)			
(i) Debtors & Other Receivables	8,643,546		4,571,388
(ii) Due from Sasmira's Institute of Man made Textile	14,678,633		1,401,9097
(iii) Due from Sasmira's Institute Commerce & Science	784,492		5,80,898
(iv) Due from Sasmira's Institute of Management Studies & Research	31,531,311		23,730,986
(v) Due from Sasmira Business School	8,975,620		48,23,083
		64,613,602	47725451
(b) CASH AND BANK BALANCES :			
(i) Cash in hand	13,835		8,975
(ii) In Saving Accounts with Schedule Banks	19,575,200		46,505,329
(iii) In Fixed Deposit account with a Scheduled Bank	2,027,864		2,040,740
		21,616,899	48,555,044
<b>(B) ADVANCES AND DEPOSITS :</b>			
(Unsecured - Considered Good)			
(i) Prepaid Expenses	1,304,007		446,872
(ii) Advances & Deposits	4,283,523		17,160,798
(iii) Tax Deducted at Source	11,801,845		17,859,440
		17,389,375	35,467,110
<b>Total</b>		<b>103,619,875</b>	<b>131,747,605</b>

**For Savant & Co.,  
Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS’ RESEARCH ASSOCIATION  
NOTES ON THE BALANCE SHEET AND INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED 31ST MARCH, 2021**

**1. SIGNIFICANT ACCOUNTING POLICIES:**

**i. Fixed Assets:**

Fixed Assets are stated at cost.

No depreciation is charged on the assets acquired through the Government CAPEX Grants received by the Association.

During the period, the management completed the identification of impairment of Assets (refer Schedule A and C for Part I, IV, V and VI).

The council of the Association has identified that in respect of some assets the carrying value of the such assets in the books of accounts (list of such assets and corresponding grants are mentioned in resolution dated 12.05.2021) is more than its realisable value due to obsolescence and damage. Accordingly, assets impaired are written off against the corresponding grants of Rs. 5,50,87,661/-. There is an unabsorbed impairment loss of Rs. 2,22,407/- same has been written off against the general income & expenditure balance in the balance sheet.

As per the last detailed valuation report from certified valuer, the market value of the leasehold land & building under the possession of Association as on 25-10-2017 is Rs.148.77 Cr. The report is available with the association.

**ii. Depreciation:**

Since no depreciation is charged on the assets acquired through the Government CAPEX Grants received by the Association. Depreciation has been provided on written down value Basis at the rates prescribed under the Income Tax Act on the other assets of the Association.

**iii. Investments:**

Investments are stated at cost.

**iv. Income & Expenditure:**

(a) Grants from Government are accounted for on the basis of amounts received through respective sanction letters.

(b) Expenditure out of the Government Grants is accounted as per the policies and guidelines of Government. Other expenses are accounted for on mercantile basis.

(c) Energy Conservation and Cost saving Efforts:

With view to conserve energy and save cost in the electricity expenses of the Association, in FY 2018-19 a Solar Power Generation Unit for captive consumption was put to use. The Association could generate 59,576.30 KwA units during financial year 2020-21, the benefit of which was received to the Association in way of reduction in electricity expenses.

**v. Interest:**

On Property Fund

Association has taken an overdraft facility of Rs. 9,00,00,000/- with Allahabad Bank against pledge of RBI Bond of Rs. 10,00,00,000/-.

During the year, the AS-16 (Ind-AS-23) is applicable for capitalizing the interest incurred in respect of the overdraft facility availed by the Association. The interest of Rs.25,72,535 before the completion of substantial construction of the building is

capitalised during the period. Interest cost incurred of Rs. 51,59,119 incurred after completion of construction is charged to the Income and Expenditure account as the substantial construction is completed on 31/12/2020 and no objection certificate from concern authority to occupy the building for the intended use is received by the Association

2. The Association has been approved by the central government for the purpose of Section 35(1)(ii) of the act for the year ended 31st March 2021. The Association is approved under Scientific and Industrial Research Organization (SIRO) by the Department of Scientific and Industrial Research (SIRO) is renewed and valid till March 31, 2024.

3. Recognition of Gratuity & Leave Encashment Liability

a) Association during the year has contributed Rs. 66,50,000/- to the Gratuity Fund of the Association. As per actuarial Valuation Report dated 19th July, 2021 liability for Gratuity for the year ended 31-3-2021, is Rs. 6,27,17,645/- (Previous Year Rs. 6,06,21,918 /-) Considering the amount lying with the Gratuity Fund Account there is shortfall of recognition of such liability of Rs. 1,12,29,290/-.

b) As per the agreement entered into with the staff, leave encashment on relinquishment of the services of the Association is allowed maximum of 300 days on the basis of last gross salary drawn by the employee. However, no liability was ascertained and accounted by Association till 31/03/2016. During the year ended on 31/03/2017, Association started recognizing such liability in accounts as Privileged Leave Encashment Benefit Liability. As per actuarial Valuation Report dated 19th July, 2021 for the year ended 31-3-2021, the liability for Leave Encashment is Rs. 3,96,28,498/- (Previous Year Rs. 3,76,92,744/-).

c) The concern actuarial Valuation Report dated 19th July, 2021 for ascertaining liability for Gratuity & Leave encashment covers liability for all units except Sasmira’s Institute of Man-Made Textiles.

4. Effect of COVID-19 pandemic on Income and Expenditure:

During the year, due to COVID-19 pandemic situation, the contract for hoarding lease was not renewed and accordingly the Association is not in receipt of such income.

To observe the Government norms in respect of work from home due to COVID-19 pandemic, most of the staff was working from home. Accordingly, the expenses on account of Electricity, Security, Garden Maintenance, Housekeeping, Conveyance and other admin expenses are reduced significantly in comparison to previous year.

5. “Sasmira’s Institute of Man-Made Textiles”, “Sasmira’s Institute of Management Studies & Research”, “Sasmira’s Institute of Commerce and Science” and Sasmira’s Business School are part of this Association for implementing various educational activities even though separate books of accounts have been maintained & statements prepared for ascertaining the true picture of activities carried on by each such Institute.

6. Previous Year’s figures have been regrouped wherever necessary to make them comparable with the current year’s figures.

**For Savant & Co.,  
Chartered Accountants**

Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION  
CENTRE OF EXCELLANCE - AGROTEXTILES ACCOUNT  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021**

**NO. II**

Sr. No.	Expenditure	Current Year	Previous Year	Sr. No.	Income	Current Year	Previous Year
		31-3-2021	31-3-2020			31-3-2021	31-3-2020
		Amount (Rs)	Amount (Rs)			Amount (Rs)	Amount (Rs)
1	Salaries	32,243,238	24,003,247	10	Testing Fees	237,250	110,000
2	Bank Charges	66	190	11	Income from Booklet	-	400
3	Repairs & Maintenance :-			12	Income from Training	255,000	2,280,000
	i. General Maintenance	20,900	-	13	Excess Of Expenditure over	32,582,518	22,804,631
	ii. Electric Maintenance	-	25,724		Income transferred to General Income & Expenditure Account		
		20,900	25,724				
4	Printing Stationery & Postage	19,900	17,552				
5	Laboratory Expenses	566,015	161,969				
6	Accreditation Expenses	223,801	530,560				
7	Expense For Exhibition & Publication	-	6,030				
8	Conveyance Charges	848	-				
9	Traveling Expenses - Foreign	-	449,759				
	<b>TOTAL</b>	<b>33,074,768</b>	<b>25,195,031</b>		<b>TOTAL</b>	<b>33,074,768</b>	<b>25,195,031</b>

As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
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**U. K. DAS**  
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**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION**  
**100% FUNDED GOVERNMENT OF INDIA PROJECT ACCOUNT**  
**INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021**

**NO. III**

Sr. No.	Expenditure	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)	Sr. No.	Income	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)
1	Biotransformation of naturally occurring phenolic compounds for development of eco-friendly Flame Retardants for imparting	-	287,748	14	Excess Provision of Expenses in earlier year in Biological Synthesis of Bio-degradable Textile Polymer	-	6,393
2	Biological Synthesis of Bio-degradable Textile Polymer	720	2,506	15	Excess of Expenditure Over Income transferred to General Income & Expenditure Account	142,287	9,487,768
3	Design and Development of an Instrumental set up for measuring the wind blockage percentage of Horticulture wind break nets	9,971	121,380				
4	Development of Biodegradable Agro textile products for Horticulture Application using Keratin based Waste Products	-	156,651				
5	Design & Development of low cost reusable sanitary pads for Indian women	32,689	1,059,477				
6	Development of High Strength Cost effective Seamless Technical Circular Fabric from Heavy Denier Multifilament Yarns.	-	1,175,257				
7	Design & Development of a Digital Instrument for Measuring the Thermoregulatory Properties of Textiles.	33,129	1,831,081				
8	Development of Next Generation Thermochromatic Thermoregulatory Agrotexile for Horticulture Application	-	1,487,147				
9	Development of Multi Shade Net for Water Harvesting	60,000	185,762				
10	Smart shade-net through auto-regulation of Thermal and Light Radiation	-	238,114				
11	Establishment of Methodology for green Processing of Cotton using Supercritical Carbon Dioxide Technology	-	1,822,616				
12	Expenses for PP Jute Hybrid Mulch Mat Horticulture Application	278	1,126,422				
13	Development of Multilayer Bio-Mat to Combat Oil Spill Pollution	5,500	-				
	<b>TOTAL</b>	<b>142,287</b>	<b>9,494,161</b>		<b>TOTAL</b>	<b>142,287</b>	<b>9,494,161</b>

As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**  
 Firm Registration No. 109356W

MUMBAI :  
 1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
 PROPRIETOR  
 Membership No. 030010

**U. K. DAS**  
 SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
 EXECUTIVE DIRECTOR

**M. R. MEHTA**  
 VICE-PRESIDENT

**M. H. DOSHI**  
 PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION  
SASMIRA'S REGIONAL POWERLOOM CENTRE AT BHIWANDI - I  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021**

**NO. IV**

Sr. No.	Expenditure	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)	Sr. No.	Income	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)
1	Salary	2,367,868	2,498,617	11	Testing & Technical Service charges	451,250	782,070
2	Contribution to P.F.	229,938	232,326	12	Recurring Grant-in-Aid from Government of India	1,700,000	1,700,000
3	Staff Welfare Expenses	11,340	26,007	13	Miscellaneous Income	-	31,022
4	Rent	600,000	600,000	14	Excess of Expenditure Over Income transferred to General Income & Expenditure Account	1,235,421	1,155,551
5	Laboratory Expense	8,212	4,940				
6	Power, Fuel & Water	54,173	87,859				
7	Printing, Stationery, Postage, Telegram and Telephone Charges	9,390	20,069				
8	Conveyance, Travelling and Transportation Charges	3,067	14,055				
9	Repairs & Maintenance :						
	Building	24,911	30,343				
	Machinery & Lab.Equipment	68,160	68,927				
	Others	8,288	10,367				
		101,359	109,637				
10	Miscellaneous Expenses	1,324	75,133				
	<b>TOTAL</b>	<b>3,386,671</b>	<b>3,668,643</b>		<b>TOTAL</b>	<b>3,386,671</b>	<b>3,668,643</b>

As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
**PROPRIETOR**  
Membership No. 030010

**U. K. DAS**  
**SR. ACCOUNTS OFFICER**

**DR. U. K. GANGOPADHYAY**  
**EXECUTIVE DIRECTOR**

**M. R. MEHTA**  
**VICE-PRESIDENT**

**M. H. DOSHI**  
**PRESIDENT**

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION  
SASMIRA'S REGIONAL POWERLOOM CENTRE AT BHIWANDI - II  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021**

**NO. V**

Sr. No.	Expenditure	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)	Sr No.	Income	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)
1	Salaries	2,226,149	2,498,170	11	Testing & Technical Service Charges	109,270	188,710
2	Contribution to P.F.	225,486	244,824	12	Recurring Grant - In - Aid from Government of India	1,700,000	1,700,000
3	Staff Welfare Expenses	6,570	18,468	13	Miscellaneous Income	-	20,010
4	Rent	102,000	102,000	14	Excess of Expenditure Over Income transferred to General Income & Expenditure Account	804,784	1,023,741
5	Laboratory Expenses	861	826				
6	Power, Fuel & Water	1,487	8,501				
7	Printing, Stationery, Postage and Telegram Charges	5,181	9,352				
8	Conveyance, Traveling, Transportation Charges	-	300				
9	Repairs & Maintenance :						
	Building	12,000	14,500				
	Machinery & Lab. Equipment	34,320	34,320				
		46,320					
10	Miscellaneous Expenses	-	1,200				
	<b>TOTAL</b>	<b>2,614,054</b>	<b>2,932,461</b>		<b>TOTAL</b>	<b>2,614,054</b>	<b>2,932,461</b>

As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT

**THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION  
SCHEME FOR PROMOTING USAGE OF AGROTEXTILE IN NER  
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31<sup>ST</sup> MARCH, 2021**

**NO. VI**

Sr. No.	Expenditure	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)	Sr. No.	Income	Current Year 31-3-2021 Amount (Rs)	Previous Year 31-3-2020 Amount (Rs)
1	Administrative Expenses	1,366,778	1,657,326	2	Grant In Aid	1,366,778	1,657,326
				3	Excess of Expenditure over Income transferred to General Income & Expenditure Account	-	-
	<b>TOTAL</b>	<b>1,366,778</b>	<b>1,657,326</b>		<b>TOTAL</b>	<b>1,366,778</b>	<b>1,657,326</b>

As per our Report of even date.,

**For Savant & Co.,**  
**Chartered Accountants**  
Firm Registration No. 109356W

MUMBAI :  
1<sup>st</sup> September 2021

**RAVINDRA M. SAVANT**  
PROPRIETOR  
Membership No. 030010

**U. K. DAS**  
SR. ACCOUNTS OFFICER

**DR. U. K. GANGOPADHYAY**  
EXECUTIVE DIRECTOR

**M. R. MEHTA**  
VICE-PRESIDENT

**M. H. DOSHI**  
PRESIDENT



## APPENDIX-I

### PROCEEDINGS OF THE SEVENTIETH ANNUAL GENERAL MEETING OF THE MEMBERS OF THE SYNTHETIC & ART SILK MILLS' RESEARCH ASSOCIATION HELD ON 18<sup>TH</sup> NOVEMBER, 2020 THROUGH VIDEO CONFERENCING

The Seventieth Annual General Meeting of the Members of the Synthetic & Art Silk Mills' Research Association was held on Wednesday, the 18th November, 2020 at 11.00 a.m. at Sasmira, Sasmira Marg, Worli, Mumbai 400 030 through Video Conferencing.

As there was no quorum, as per Rule No. 54 of the Rules and Regulations of the Association, the meeting was adjourned to 11.30 a.m.

The adjourned meeting was held at 11.30 a.m., when 12 members were present (Annex-1), which was presided by Shri Maganlal H. Doshi.

1. Shri Sushil D. Bagade, Secretary read the notice convening the Seventieth Annual General Meeting of the Association.
2. The Chairman thereafter addressed the meeting and presented the Audited Balance Sheet and Income and

Expenditure Account of the Association for the year ended 31<sup>st</sup> March, 2020 and invited discussion on the subject. He asked the members whether they have any queries. As there were no queries, the Chairman put the following resolution to vote which was seconded by Shri Viresh Kamdar and was carried out unanimously.

“RESOLVED that the Report of the Council and the Audited Balance Sheet and Income and Expenditure Account of the Association for the year ended 31<sup>st</sup> March, 2020 be and are hereby adopted.”

3. As per the request of the Chairman, Dr. U.K. Gangopadhyay, Executive Director read out the names of the candidates who have submitted valid nominations for the election to the Council along with the names of the proposer and seconder which are as follows :

S.No	Name of the Candidate	Proposed by	Seconded by
1.	Shri Sunil S. Mehta, Paragon Textile Mills Pvt. Ltd., Mumbai	Shri B.S. Parekh Bharat Velours, Mumbai	Mrs. Smita A. Yeole Oriental Weaving & Processing Mills P. Ltd., Navi Mumbai
2.	Shri S. S. Khetan, Kesari Synthetics Ltd., Mumbai	Mrs. Hemal Udani Vyshali Bleaching Co. Ltd. Mumbai	Shri Mihir R. Mehta New Mahalaxmi Silk Mills Pvt. Ltd., Mumbai
3.	Shri Viresh Kamdar Shakti Silk Mills, Mumbai	Shri Mihir R. Mehta New Mahalaxmi Silk Mills Pvt. Ltd., Mumbai	Mrs. Smita A. Yeole Oriental Weaving & Processing Mills P. Ltd., Navi Mumbai
4.	Shri Nandkishor D. Chorawala Nirant Silk Fabrics, Surat	Mrs. Hemal Udani Vyshali Bleaching Co. Ltd. Mumbai	Shri Mihir R. Mehta New Mahalaxmi Silk Mills Pvt. Ltd., Mumbai
5.	Shri Sunder S. Golani Polyfab, Mumbai	Mrs. Smita A. Yeole Oriental Weaving & Processing Mills P. Ltd., Navi Mumbai	Shri B.S. Parekh Bharat Velours, Mumbai
6.	Shri Kaval Mehra Universal Knitting Mills P. Ltd., Mumbai	Shri Maganlal H.Doshi Eldee Velvet & Industries Ltd, Mumbai	Shri B.S. Parekh Bharat Velours, Mumbai
7.	Shri Jayesh R. Mehta Chandni Textiles Engineering Industries Ltd., Mumbai	Shri Bharat H. Mehta Jyoti Silk Mills, Mumbai	Shri Mihir R. Mehta New Mahalaxmi Silk Mills Pvt. Ltd., Mumbai

And informed the members that since there were only Seven candidates for the Seven seats in the Council, all the Seven candidates were declared elected.

4. Chairman proposed the following Resolution for re-appointment of M/s. Savant & Co., Auditors for the year 2020-21 and this was seconded by Shri Mihir R. Mehta which was carried out unanimously :

“RESOLVED that Messrs Savant & Co., be and are hereby re-appointed as Auditors of the Association for the year 2020-21 on a remuneration of Rs. 3,00,000/- per annum.”

The meeting ended with vote of thanks to the Chair.

## ANNEXURE-I

### Attendance List of Members at the 70<sup>th</sup> AGM held on 18.11.2020

Sr. No.	Name of the company	Authorised Representative
1	Eldee Velvet & Industries Ltd.	Shri Maganlal H. Doshi
2	New Mahalaxmi Silk Mills Pvt. Ltd.	Shri Mihir R. Mehta
3	Paragon Textile Mills Pvt. Ltd.	Shri Sunil S. Mehta
4	Bharat Velours	Shri B.S. Parekh
5	Haren Textiles Pvt. Ltd.	Shri Gokul K. Mehta
6	Kesari Synthetics Ltd.	Shri S.S. Khetan
7	Shakti Silk Mills	Shri Viresh Kamdar
8	Oriental Weaving & Processing Mills Pvt. Ltd.	Mrs. Smita A. Yeole
9	Jyoti Silk Mills	Shri Bharat H. Mehta
10	Vyshali Bleaching Co. Ltd.	Mrs. Hemal P. Udani
11	Eldee Velvet & Industries Ltd.	Ms. Nehal M.Doshi
12	B.M.K. Industries Pvt. Ltd.	Ms. Darshana M. Doshi
13	Sravya Textile Ltd.	Shri P. Rakesh Kumar

## APPENDIX-II

### SPEECH OF SHRI MAGANLAL H. DOSHI, PRESIDENT, SASMIRA AT THE 70<sup>TH</sup> ANNUAL GENERAL MEETING

Friends,

I have great pleasure in welcoming you all to the 70<sup>th</sup> Annual General Meeting of our Association. I am privileged to be addressing you all on the Platinum Jubilee of our Organization. Indeed it is a proud moment to have seen the growth of our beloved organization over the past seven decades, albeit this has not been the best of the years, but as we all know we humans do not have control on many things and we have to keep our endurance for this phase to pass through.

The world is challenged by Covid-19 Pandemic. On the one side, lives are been lost as a result of Pandemic, other largest consequence that the world is facing is a big downfall in the economy too. This economic crisis has attacked various business in and around the world. All sort of Travel, Hospitality, Hotels, Restaurants, Bar, Package food, retail, e-commerce, Automobile etc. One of the severely affected industries is Textile Manufacturing, which is the second largest employment creating industry after agriculture.

I have been a witness to innumerable ups and downs in the Textile Industry over the decades and the one thing that has remained constant is the contribution of this industry to our economy. Textile was and remains the second largest employer after agriculture, providing employment to over 45 million people directly and 60 million people indirectly. The textile industry indirectly contributed around 5 per cent to GDP. The sector contributed around 14 per cent to the overall Index of Industrial Production (IIP).

The value of the world textile trade decreased by 2.4 per cent year-on-year to \$ 305 billion, while apparel trade dropped 0.4 per cent to \$ 492 billion, according to the World Trade Statistical Review 2020, released by the World Trade Organisation (WTO). The US-China tariff war was among the reasons for contraction of textile and apparel trade.

Talking of the last year, the top three textile exporters were China, EU-28, and India and together they accounted for 66.9 per cent of the world textile exports. In terms of textile imports, the top two importers namely the US and EU-28 together accounted for 31.2 percent of world textile imports in 2019. Vietnam emerged as the third largest textile importer.

The global import value of synthetic staple fibres of acrylic or modacrylic was \$1,026.00 million in 2017, which slipped 26.37 per cent to \$755.42 million in 2019. Total imports decreased 32.08 per cent in 2019 over the previous year and is expected to rise to \$933.59 million in 2022 with a rate of 23.59 per cent from 2019, according to Fibre2Fashion's market analysis tool TexPro. The top three apparel importers EU-28, the US, and Japan together bought 58.1 per cent of world apparel in 2019. The textiles industry in India was estimated at more than US\$ 100 billion in January 2020.

This year, the measures being taken by the government to fight the coronavirus pandemic has put textile manufacturers in a spot.

While on the one hand, the sector is struggling to continue with its production schedule as the demand has almost come to a halt, on the other hand the pressure to repay its dues to banks is alarming. Also, amongst the massive impact that coronavirus has had on the economies; fashion is one of the hardest-hit industries. If the current situation continues, nearly a quarter of the jobs in the industry will be lost, according to the Clothing Manufacturers' Association of India (CMAI). Recovery, the CMAI predicts, will take at least 10 months to a year. Without government support, the industry cannot survive this unprecedented crisis.

A recent report calibrated by Wazir Advisors estimates that the combined apparel consumption of EU and the US might fall to about US\$ 308 billion, 40-45 % lower than the 2020 projected consumptions. This will be a tough time for Indian apparel exporters as about 60 % of the country's apparel exports are destined for EU and the US markets.

However, on the brighter side, a number of countries around the world, such as the USA & Japan, have decided to learn lessons from this calamity and look for alternate production sources other than China. India should capitalize on this situation and present itself as a credible alternative to increase its textile and apparel exports share. Further, manufacturers need to maximize their internal capabilities and focus on building their efficiencies if they want to emerge as a better option than competitors like Bangladesh, Vietnam and Cambodia.

The textiles sector has witnessed a spurt in investment during the last five years. The industry (including dyed and printed) attracted Foreign Direct Investment (FDI) worth US\$ 3.44 billion from April 2000 to March 2020. Under Union Budget 2020-21, initiatives taken by Government of India includes a National Technical Textiles Mission for a period from 2020-21 to 2023-24 at an estimated outlay of Rs 1,480 crore (US\$ 211.76 million).

SASMIRA is gearing up to cater to the ever increasing demand for quality products by strengthening its core activity of Research and Product Certification. Friends, I had informed in the last AGM about our aspirations to add Toy and Food products to our NABL Scope of Testing and I am pleased to share that SASMIRA has now added these Products to their testing in addition to the Hazardous Chemical Testing which has become very important in these times.

Our Research and Development wing has partially suffered due to the non-availability of funds from the Ministry of Textiles. The department are still awaiting funds to conclude the projects viz., : Biological Synthesis of Bio-degradable Textile Polymer, Development of Biodegradable Agrotexile products for Horticulture Application using Keratin based Waste Products, Biotransformation of naturally occurring phenolic compounds for development of eco-friendly Flame Retardants for imparting functionality to textiles, Smart Shade-net Through auto-regulation of Thermal and Light Radiation, Development of Multi-Purpose Shade Net for Water Harvesting, Design and

development of an instrumental set up for measuring the wind blockage percentage of horticultural wind break nets, PP/Jute Hybrid Mulch Mat for Moisture and Temperature Management in Horticulture Application, Establishment of Methodology for Green Processing of Cotton using Supercritical Carbon Dioxide Technology, development of Next Generation Thermochromatic Thermoregulatory Agrotextiles for Horticulture Application, Design and Development of Low Cost Reusable Sanitary Pads for Indian Women, Development of High Strength Cost effective Seamless Technical Circular Fabric from Heavy Denier Multifilament Yarns, Design and Development of a Digital Instrument for Measuring the Thermoregulatory Properties of Textiles.

The Research wing is submitting projects to other agencies and have received favourable funding from Department of Science and Technology for project on "Development of High Performance Hail Protection Net for Agriculture / Horticulture Application". Similarly Rajiv Gandhi Science and Technology Commission affiliated to Government of Maharashtra has sanctioned a project on "Adult Incontinence Products".

The Patents filed in the last few years are now being examined as per the time schedules of the Patent Office and accordingly the First Examination Reports of Three Patents have been received and appropriate replies to the same have been submitted to the Patent Office. We are confident to get the grants for these Patents by the year end.

The Centre of Excellence is making progress with respect to incubation, training and certification. The industry is regularly sourcing the Shade-o-meter which has been designed and developed by SASMIRA.

The NER Scheme, which had an extension upto March 2020, has witnessed setting up of 44 Demonstration Centres in all 8 States of the North East and Training of 5012 farmers in NER has been completed. 1218 Kits are being distributed to beneficiary farmers from NER states. There is every possibility of SASMIRA being a part of the 'Pooled Projects' of Agrotextiles under the Ministry of Textiles' National Technical Textile Mission 2020.

We ensure delivering quality education in management through our flagship program, Masters of Management Studies (MMS), affiliated to the University of Mumbai at SIMSR. It gives feeling of pride to open an introduction with the achievement in the field of academics. Ms. Dhanashree Bhajani, of our SIMSR, secured First rank in the Mumbai University exams held in November 2019.

SIMSR also received grant of Rs. 11,17,416/- from AICTE to conduct program under scheme Skill and Personality Development Programs Center for SC/ST students for the year 2019-20.

We are ranked 19th in the Higher Education Review's Beyond IIM's Top 100 B schools Survey 2020 Silicon India - "What if not IIMs" B-Schools Survey 2020.

Ranked 79 among the "Top 100 B-Schools" and "Top Private Institutes" by the Times B-School Ranking Survey 2020.

Business Today- Best Business School Survey (MDRA) 2019 Ranked SIMSR among the Top 100 Institute under the category Top ROI & Top Future Orientation Institutes .

All India B-School Ranking Survey-2019 Conferred Certificate of Excellence "A Category" to SIMSR for west zone.

All this is beyond, us, being an NBA accredited institute that has also been certified with ISO by BIS.

We, at SIMSR, enrich our students with the industry etiquettes, making them ready to compete in future. Even in the testing times of the pandemic our students were placed for summer internship. Numbers of guest lecturers from industry experts and our alumni, both physical initially and later online were arranged in the academic year to help our students get insights of the practical aspects of the business world.

SIMSR is a Research Centre for the Ph.D Degree approved and recognized by the University of Mumbai and SNDT University. We are also the facilitation centre for Shobhit University. This year 03 guides were approved by SNDT University from the institute and 05 students got admission for the Ph.D program.

This year some notable brands like Britannia, Wipro, Homesfy, HFFC, Worldquant, JM Financials, HDFC Bank, IndusInd Bank, ICICI Bank, Godrej Industries, ITC, Berger Paints, Flipkart, Amul India, Aditya Birla Capital Ltd took part in our summer internship. The highest package bagged by our student is 9.60 Lacs / annum, which was offered by JM Financial and average package has been Rs. 4.12 Lacs / annum.

In order to give our students international business & educational exposure, International Industrial Visit to Malaysia was organized in the month of January 2020. Visit to Asia Pacific University of Technology and Innovation and Royal Selangor industries at Kuala Lumpur, was a great learning experience for the students.

Kartavya – (The NGO Mela), the annual CSR activity of SIMSR was organized on 6<sup>th</sup> March, 2020. The occasion was graced by presence of the Charity Commissioner (Maharashtra State), Shri. Rajesh Narendra Kumarji Joshi.

To appreciate the hard work of our students and congratulate them and their parents, Convocation ceremony for the MMS batch of 2017-19 was held on 1<sup>st</sup> February 2020, in the institute auditorium. Occasion was graced by the presence of Mr. A.K. Ghosh, Director – Connect Pharma Pvt. Ltd.

In the current pandemic, SBS has taken an e-route learning technique by organizing a webinar series on the theme- "Management 4.0: Developing Future Managers and Leaders" and has even created virtual classrooms.

Also at SBS we believe that guest lectures, workshops, expert sessions lead to experiences that are connected to, reinforce, or mirror the main academic curriculum or syllabi activities. Nevertheless, the co-curricular and extra-curricular activities enable the student to grow in confidence, knowledge and enhance their all-round development. Thus to give the students a practical knowledge various guest and expert lectures were organized during the academic year. To mention few topics- Guest Lecture on "Successful Career Engagement", "Managing the Genetic Intelligence", "Demystifying Financial Investments", "Commodity Derivatives (MCX India Ltd.)", "Career in Stock Markets" and an Expert Session on "Union Budget and its effect

on various sectors". Four days' workshop was also organized on Business Analytics using R and advance Excel.

The students have got final placement and are working with some renowned companies, to name a few Berger Paints, ITC, ICICI Bank, HDFC Bank, Edelweiss Broking Ltd., Motilal Oswal, Meril Life Sciences, Citigroup, etc.

SICS, Sasmira's Institute of Commerce and Science had a modest beginning in 2016. This year, the 5<sup>th</sup> batch of SICS has been successfully inducted. We also had our 1<sup>st</sup> batch passing out this year and their graduation ceremony was held on 1<sup>st</sup> program under the '70 glorious years of Sasmira'. The students of SICS have participated in Inter college activities where they were able to earn for the institute a lot of fame by displaying their spirit and enthusiasm as well as won a few awards. We also this year conducted our 2<sup>nd</sup> International Research Conference where Researchers, Faculties and Students presented more than 100 papers which were published in SCOPUS and UCG CARE journal. SICS also had a National Conference on Women Empowerment where 92 researches presented their papers. SICS also had its first online Research Conference on a very relevant topic of 'The New Normal in the pandemic and post pandemic Business Era' There was huge attendance in the conference and 68 researchers presented their findings in the conference. Several curricular, co-curricular and cultural activities were conducted throughout the year. For the first time the College festival "Spontenia" was converted into an intercollege event where students from other colleges participated in the 4 day festival to celebrate the spirit of SICSians.

A free health check up program was organized by SICS which was open to all the students parents and staff of Sasmira. A blood donation camp was also organized by the students of the BMS club. The BAF club organized a 'Financial Literacy Program' for the women residing in the neighborhood areas.

To enhance the skills of our students and teachers SICS has signed 14 different MOU's with professional institutions, to give our students a chance to develop their knowledge and skills and enable them to be job ready. Few MOU's were also signed with NGO's to give a chance to our students to contribute to the society with their skills in communication, marketing and other fields to benefit the NGO's.

In order to encourage our faculties we continuously conduct workshops and Faculty Development Programs for enhancing their teaching and research abilities. The faculty have attended several online training and FDP's during the lock down period.

Sasmira's Institute of Man-Made Textiles (SIMMT) has developed its "outcome based curriculum" which is being progressively implemented and in the current year it is implemented to all I to VI semesters. Under this curriculum, the students would go for full-fledged industrial training in their entire sixth semester. This will enable students to get hands-on experience and will also improve their employability.

22<sup>nd</sup> Convocation ceremony to confer the Diploma awards to passed out students during Winter 2018 and Summer 2019 examinations was organized on 18<sup>th</sup> September 2019. 73 students (31 DMTT + 36 DMTC + 06 DKT) were conferred the award of Diploma.

Throughout the year, SIMMT conducted various curricular, co-

curricular and extra-curricular activities. Republic and Independence Days were celebrated with full enthusiasm, gaiety and national fervor. Institute participated in Free Health Checkup camp, Blood Donation Camp, Marathi Bhasha Gaurav Din, Mahatma Gandhi's 151<sup>st</sup> Anniversary Celebration, Sports Week, and Cultural Days etc. Institute conducted faculty development and personality development programmes. SIMMT students also excelled in intercollegiate sports and academic competitions. Institute's "Sasmirotsav 2020" was scheduled on 11<sup>th</sup> March 2020; however was to be cancelled due to Covid 19 pandemic.

Sasmira's Education & Training Program (SETP) Department is established to support the textile and allied industries by providing well trained manpower as per their need. The training programs are divided into three major categories viz. Fashion Designing, Textile Designing and Apparel Merchandising.

The department is affiliated with University of Mumbai's GICED for full time UG and PG Diploma courses and conducting B. Sc. Degree in Fashion Designing from YCMOU (Yaswantrao Chavan Maharashtra Open University). In addition, fulltime & part time diploma courses in Fashion Designing and short duration Diploma Courses in Apparel Merchandising as well as Wet Processing, Weaving and Textile CAD is also conducted under this department. During this year altogether 15 batches were conducted including full time and part time courses.

SETP conducted various events and workshops throughout the year. Some of them are Fashion Forecast Seminar (Spring Summer '21), Workshop on Advance Draping with designer Sunipa Samaddar, Craft-o-Mania etc. Students.

SETP conducts two major visits for the regular as well as part time students – Industrial Visit and Craft Visit.

Industrial Visit was held for all students of SETP from 25<sup>th</sup> to 27<sup>th</sup> September 2019 at Tarapur & Daman. Total 79 students along with 4 faculty members visited Industry like: Oxemberg, Hakoba Industries, Grafica Flextronica, etc.

Another major study tour of SETP is Craft Visit where students get the exposure of various traditional textiles, Art and Crafts. This year the destination was Himachal Pradesh. It was held between 25<sup>th</sup> January to 2<sup>nd</sup> February 2020. The students of full time courses and some students of part time courses participated in the tour. 98 students have visited Himachal Pradesh – McLeod Ganj, Dalhousie and Amritsar and experienced and attended workshops on Kangra, & Kullu Handloom Weaving, Thanka Painting, Tibetan Appliqué and Phulkari embroidery.

Like every year, after the craft visit this year SETP design students have designed various products in textile and fashion including garments, home furnishing, home décor and fashion accessories. The handcrafted products were exhibited in Craft-O Mania – 2020 on 11<sup>th</sup> of March and the garments were showcased in a Mock fashion show in front of the internal Jury Panel.

Various webinars were conducted by team SETP during the lockdown period. Some of them are "Denim Coloration by Sulphur Dyes", "Art in Everyday Clothing", "Self Introspection", etc. SETP has also celebrated Independence day and National Handloom Day virtually by digital platform.

Friends, while giving you my understanding about the achievements and diverse activities of SASMIRA, I must inform

you the status of our growth and development of infrastructure facilities. You all are aware that we had started our new building quite some time back and although we had difficulties in the past as well as prevailing Covid-19 pandemic situation, we have reached the completion stage. We have applied for Fire NOC and will be receiving the same shortly. And then will immediately proceed to obtain Part Occupation Certification from MCGM.

Friends, I would like to bring to your notice that with enhanced infrastructure and acquired competence in the areas of the Education, Council is actively considering further betterment in the academic field as well as international collaborative educational programmes. I look forward to your suggestions and inputs for the same.

I thank all my colleagues on the Council for their continuous support and immense encouragement. The confidence and faith reposed by the Council and the Management team has, in my view, spurred the Organization to take on more challenges. I have special words to acknowledge the collective efforts of the entire team, working tirelessly for creating and sustaining a world-class research organization.

I would also like place on record the support from the various Government and Non-Government Organizations particularly to mention the officials from Ministry of Textiles, Government of India, Department of Textiles, Government of Maharashtra, Directorate of Technical Education (DTE), Government of Maharashtra, All India Council for Technical Education (AICTE), Government of India, Officials from Municipal Corporation of Greater Mumbai (MCGM) and Mumbai Metro Rail Corporation Limited (MMRCL).

The accounts for the year 2019-2020 have been in your hands and since there are no queries, I present to you the Council's Annual Report and Balance Sheet for the year ended 31<sup>st</sup> March, 2020 and moves the same to be adopted.

“Resolved that the 70<sup>th</sup> Annual Report of the Council and Audited Balance Sheet and Income and Expenditure account of the Association for the year ended 31<sup>st</sup> March, 2020 be and are hereby adopted”.

Mumbai,

Date: 18<sup>th</sup> November 2020

## APPENDIX-III MEMBERS LIST AS ON 31/03/2021

### ORDINARY MEMBERS

- 1 **M/s. A.N. Textiles**  
901 Shree Apts, Makkai Pool, Navpura, Surat 395 001.
- 2 **M/s. Amritlal Hiralal Gonwala**  
Shop No.513-514, Jash Textile Market, Ring Road,  
Surat 395 002.3
- 3 **M/s. Anita Textiles**  
Plot No. 102/103, Phase-III, Parvati Co-op. Industrial Estate,  
Yadrav, Kolhapur – 416145.
- 4 **M/s. B.M.K. Industries Pvt. Ltd.**  
Ujamvilas, Azadnagar Society,  
Gulmohar Road, Vile Parle (W), Mumbai – 400 056.
- 5 **M/s. Beekalene Fabrics Ltd.**  
Beekalene House, 47, Central Road, MIDC, Andheri (E),  
Mumbai – 400 093.
- 6 **Batsons Textiles**  
A/6, Plot No. 4-5-6, Central Road No. 5, Udyognagar,  
Udhna, Surat-394210, Gujarat, India.
- 7 **M/s. Bell Textiles Pvt. Ltd.**  
A/6, Plot No.4-5-6 Central Road,  
No.5, Udhynagar, Udhna, Surat 394 210.
- 8 **M/s. Bharat Velours**  
304, Prabhu Kutir, 15, Altamont Road, Mumbai 400 002.
- 9 **M/s. Colourtex Industries Pvt. Ltd.**  
Survey No. 80, Bhestan, Plot No.158/3, Behind Fire Stn,  
GIDC, Pandesara, Surat.
- 10 **M/s. Chandni Textiles Engineering Industries Ltd.**  
110, TV Indl. Estate, 52, S.K. Ahire Marg, Worli,  
Mumbai 400 030.
- 11 **M/s. CTM Technical Textiles Ltd.**  
205, New Cloth Market, Raipur,  
Ahmedabad – 380 002 Gujarat
- 12 **M/s. D.V. Industries**  
367-A, Kalbadevi Road, Opp. Ganco Opticians,  
Mumbai 400 002.
- 13 **M/s. Decitex Furnishings Ltd.**  
Palmcourt Complex, M Bldg, B Wing, 2<sup>nd</sup> fl Malad Link Rd,  
Malad (W), Mumbai 400 064.
- 14 **M/s. Dhanlaxmi Fabrics Ltd.**  
Bhopar Village, Manpada Road, Dombivli East, Thane Dist.
- 15 **M/s. Dodhia Synthetics Ltd.**  
Dodhia House,98/2 New Mavji Compound, Bh.Ratan Talkies,  
Narpoli, Bhiwandi, Dist.Thane 421 302.
- 16 **M/s. Dhaval Fabrics Pvt. Ltd.**  
1, Madhav Estate, Nr.Muktidham Ind.Estate,  
Nikol Village Road, Nikol, Ahmedabad 382350
- 17 **M/s. Eldee Velvet & Industries Ltd.**  
Echjay House, 31A Carmaichael Road, Mumbai – 400 026.
- 18 **M/s. Gebilal Bhaidas Marfatia**  
A/28, Plot No.5,Opp. Road No.7, M.G. Road, Udhna,  
Surat 394 210
- 19 **M/s. Garden Silk Mills Ltd.**  
First Floor, Tulsi Krupa Arcade,  
Puna-Kumbharia Road, Dumbhal, Surat 395 010.
- 20 **M/s. Ginza Industries Ltd.**  
A-501, Lotus Corporate Park, Jai-Coach Lane,  
Goregaon (East), Mumbai-400 063.
- 21 **M/s. Harshad Textile Mills Pvt. Ltd.**  
C/o. Sadhana Textile Mills P Ltd, 578/570 P B Marg,  
Worli, Mumbai 400 018
- 22 **M/s. Hind Weaving Works**  
2/1009, Sakrampura, Main Road, Surat.
- 23 **M/s. Hrishikesh Industrial Fabrics Pvt. Ltd.**  
18A, Shivam Estate, N-70, MIDC, Subash Lane,  
Malad E, Mumbai 400 097.
- 24 **M/s. Haren Textiles Pvt. Ltd.**  
Opp. Civil Aviation Dept., Before Dahisar Check Naka,  
Western Exp. Highway, Dahisar East, Mumbai 400 068.
- 25 **M/s. Jagdamba Fabrics Wvg. Works**  
Jagdamba House, Next to Anupam Cinema  
Perubaug, Goregaon East, Mumbai 400 063
- 26 **M/s. Jyoti Silk Mills**  
Bhangwadi Shopping Arcade, Shop No.3, Kalbadevi Road,  
Mumbai 400 002
- 27 **M/s. Ken Enterprises Pvt. Ltd.**  
9/621, Industrial Estate, Near Kalyan Kendra,  
Parvati Industrial Estate, Ichalkaranji – 416 115  
Tal. Hatkanangle, Dist. Kolhapur.
- 28 **M/s. Kesari Synthetics Ltd.**  
224 Kalbadevi Road, 1<sup>st</sup> floor, Mumbai 400 002.
- 29 **M/s. Kusumgar Corporates Pvt. Ltd.**  
101/102 Manjushree,V.M.Rd, Corner of N.S.Road 5  
JVPD Scheme, Vile Parle W, Mumbai 400 056
- 30 **M/s. Lala Textiles Traders**  
29 Hafsanal, Bhiwandi 421 303, Dist. Thane

- 31 **M/s. Madhuram Fabrics Pvt. Ltd.**  
120 Shanta Ind. Estate, I.B. Patel Road,  
Goregaon East, Mumbai 400 063
- 32 **M/s. Mahendra Lallubhai Rotaliwala**  
Udhna Magdalla Rd, Near Old Octroi Office, Surat.
- 33 **M/s. Maruti Textiles Pvt. Ltd.**  
Plot No. 268- 270 GIDC, Pandesara, Surat 394 221
- 34 **M/s. Mahajan Silk Mills**  
LBS Marg, Vikhroli, Mumbai 400 079
- 35 **M/s. Nirant Silk Fabrics**  
Survey No.165, Shreeram Ind. Coop. Services Soc. Ltd.  
Magdalla Road, Udhana, Surat – 395 007.
- 36 **M/s. The New Mahalaxmi Silk Mills Ltd.**  
Mathurdas Mills Compound, Lower Parel, N.M. Joshi Marg,  
Mumbai – 400 013.
- 37 **M/s. Om Pile Private Limited**  
A-1/ 1506, Panoli Industrial Estate, GIDC, Panoli, Ankleswhar  
Dist, Bharuch , Gujarat – 394 116.
- 38 **M/s. Oriental Weaving & Processing Mills P. Ltd.**  
D-64,T.T.C.Indl.Area, MIDC, Turbhe, Navi Mumbai 400 705.
- 39 **M/s. Paragon Textile Mills Pvt. Ltd.**  
1/11-12,Paragon Condominium, P.B. Marg, Mumbai 400 013
- 40 **M/s. Pal Synthetics Ltd.**  
41, Pal House, Marol Coop Indl Estate, Andheri Kurla Rd,  
Andheri E, Mumbai 400 059
- 41 **M/s. Pioneer Embroideries Ltd.**  
Unit No.21 to 25 2<sup>nd</sup> floor, Orient House, 3-A Udyog Nagar,  
Off. S.V.Road,Goregaon W, Mumbai 400 062
- 42 **M/s. Polyfab**  
1/58-59, Dhiraj Pen Compound, Andheri-Kurla Road,  
J.B.Nagar, Near Sangam, Andheri E, Mumbai 400 059
- 43 **M/s. Purity Textiles Pvt. Ltd.**  
2B, Laxmi Towers 8th fl, B Wing, Behind ICICI Bank,  
Bandra-Kurla complex, Bandra E, Mumbai 400 051
- 44 **M/s. Polynova Industries Ltd.**  
159, CST Road,Kalina, Santacruz East,  
Mumbai 400 098
- 45 **M/s. Ridham Synthetics Pvt. Ltd.**  
Laxmi Woollen Mills Comp., Shakti Mills Lane,  
Dr E. Moses Rd, Mahalaxmi, Mumbai 400 011.
- 46 **M/s. Reliance Industries Ltd.**  
Reliance Corporate Park, 8B, 1st Floor, Cabin No.18,  
Thane Belapur Road, Ghansoli, Navi Mumbai–400 701.
- 47 **M/s. Radhaballabh Silk Mills P. Ltd**  
Plot No.6, Shyam Nagar, Majas Village, Jogeswari E,  
Mumbai 400 060
- 48 **M/s. The Ruby Mills Ltd**  
Ruby House, J.K.Sawant Marg, Dadar W, Mumbai 400 028.
- 49 **M/s. Sadhana Textile Mills P. Ltd.**  
5568/570 Pandurang Budhkar Marg,Worli, Mumbai-400 018
- 50 **M/s. Shakti Silk Mills**  
6A Samrat Mills Compound, LBS Marg,Vikhroli West,  
Mumbai 400 079
- 51 **M/s. Shan Fab (I)**  
120 Gundecha Indl Complex, Akurli Road,  
Kandivle E, Mumbai 400 101
- 52 **M/s. S. Kumars Ltd.**  
Niranjan, 99, Marine Drive, Mumbai 400 002
- 53 **M/s. Synfab Textile Mills**  
5B/154 Mittal Estate, Andheri Kurla Road, Andheri E,  
Mumbai 400 059
- 54 **M/s. Sunshine Velvet Pvt Ltd.**  
55/57,Ground Flr.Mirza Street, Zaveri Bazar,  
Mumbai 400 003.
- 55 **M/s. Sravya Textile Ltd.**  
2nd Floor, Ideal Towers, Opp. BHEL Enclave, Akbar Road  
Tadbund, Secunderabad – 500 009 Telangana.
- 56 **M/s. Tapi Silk Mills**  
15/439, Bodawala Industrial Estate,Gotalawadi, Katargang,  
Surat – 395 004.
- 57 **M/s. TECHFAB INDIA**  
Embassy Centre, Nariman Point, Mumbai 400 021
- 58 **M/s. The Calcutta Silk Mfg. Coy. Ltd.**  
Commercial House, Door No.135A  
Biplabi Rash Behari Basu Road, Kolkata 700 001.
- 59 **M/s. URJA Products Pvt. Ltd.**  
423-425 GIDC, Telephone Exchange Lane,  
Odhav, Ahmedabad 382 415
- 60 **M/s. Universal Knitting Mills P. Ltd.**  
Mehra Estate, LBS Marg, Vikhroli, Mumbai 400 079.
- 61 **M/s. Vasant Weaving Factory**  
6/1662, Gundi Sheri, Lal Darwaja, Surat 395 003.
- 62 **M/s. Vyshali Bleaching Co. Ltd.**  
Ecjay House, 31-A, Carmaichel Road, Mumbai 400 026.
- 63 **M/s. Zaveri Textiles**  
Bunglow 18, Maskati Plot, Parle Point, Athwalines, Surat.



## ASSOCIATE MEMBERS

- |  |  |
|--|--|
| <b>1 M/s. Brijal Purshottamdas</b><br>Raheja Chambers, 12 <sup>th</sup> Floor, 213, Nariman Point,<br>Mumbai - 400 021.                      | <b>4 VISSCO REHABILITATION AIDS PVT. LTD.</b><br>517, Tulsiani Chambers,<br>Nariman Point, Free Press Journal Road,<br>Mumbai 400021.                  |
| <b>2 M/s. Shri Ambica Polymer Pvt. Ltd.</b><br>1 Ishwar Park, 2 <sup>nd</sup> floor, Opp. Jaju Hospital, P.O. Navjivan,<br>Ahmedabad 300 014 | <b>5 M/s. KDP Enterprises</b><br>21/22, Neelkanth Ind.Estate No.1,<br>Near Sai Baba Mandir, S.No.59/4,<br>Sativali, Vasai Road (E),<br>Palghar-401208. |
| <b>3 M/s. Wool Research Association</b><br>Akbar Camp Road, P.O. Sandoz Baug,<br>Kolshet Road, Thane 400 607.                                |  |

## INDIVIDUAL ASSOCIATE MEMBERS

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| <b>1 Shri. K.R. Podar,</b><br>Podar Chambers, Sayyed Abdulla Brelvi Road, Fort,<br>Mumbai 400 001. |
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# sasmira

**THE SYNTHETIC & ART SILK MILLS'  
RESEARCH ASSOCIATION**

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