



Indian Jute Industries'
Research Association

*The first co-operative R & D organisation
Since 1937*

ANNUAL REPORT 2021-22



ANNUAL REPORT

2021-2022



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From the Desk of the Director

Turning around changing an organizational culture does not happen by chance. The Gazette Notification dated 26th August, 2020 in the midst of COVID-19 pandemic has acted as a stimulus for change in IJIRA's culture. Through this Gazette Notification, the status of IJIRA has been changed from affiliated body to approved body by the Ministry of Textiles, Govt. of India in the midst of worldwide lockdown due to COVID pandoram, effect of which seems irreversible both in terms of financial status and well being of humans.

Under the above stated hard directive by the government, IJIRA's survival is at stake and all IJIRA staff members were forced to revisit their modus operandi and re-orient themselves to do what is relevant for the jute sector and stop working in dead end jobs with hefty pay but no purpose. That's the battle cry of IJIIRA employees during this Great Reset in an employee driven directive of Ministry of Textiles. It is also a fact that an old organization becomes more complex. Increase in complexity leads to stress, miscommunication, costly errors, poor customer services and great overall cost. Therefore, in light of the current directive of the Ministry of Textiles to keep from being buried, IJIRA as an organization - had no alternative but to put in place system and structures beside motivating employees so as to create alignment between one's work, one's values and things that bring purpose. It is a fact that one can't have purpose without passion which comes from the desire to make a change – a difference - for IJIRA's customers, its business or even the world.

It is heartening to note that IJIRA's team has re-oriented itself and shows up to work with passion and a zest for what the team do prioritize quality and excellence in its work. Today, IJIRA staff feels more connected to work they are doing which correlates directly to how IJIRA's customers feel about IJIRA's services or technologies. To state simply, IJIRA staff are beginning to love what they do which is leading to happy customer who keep coming back. This is primarily the reason that despite depleted funds from Ministry of Textile and no project sanctioned by the Ministry, the institute has been able to face the crisis boldly in the current financial year and has been able to transfer three technologies to the industry. Perhaps this is the first time in the history of IJIRA that it has filed three patents in this financial year.

IJIRA has also initiated activities for value addition of the agro-waste on the principle of "more from less" which ultimately will benefit the Government by saving ex-chequer in B. Twill bag procurement. IJIRA is also planning to embark upon a massive programme in order to bring transparency in the jute trade and reduce conflicts or errors during procurement of raw jute or B. Twill bags. IJIRA's staff is quickly learning that growing a business in an institute is a dynamic process that requires shifting set of priorities as the team navigates the predictable evolution and revolution of growth. Installed system and structure will help the institute to manage increasing complexities in times to come and to move ahead with the market dynamics that impact the institute's services. These are the fundamentals which team IJIRA is adopting in order to successfully grow IJIRA's services to the industry along with technologies that will be fun and profitable for the institution. With the adoption of these policies, as well as support from the Ministry of Textiles, team IJIRA expects to bring healthy balance sheet in the current financial year of 2022-23.

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SECTION I

***Areas of Work
&
Achievements
(2021-22)***

Brief Introduction on IJIRA

Indian Jute Industries' Research Association (IJIRA), registered under West Bengal Societies Registration Act, 1961, is an autonomous Co-operative Research Organization under the Ministry of Textiles, Govt. of India and located in Kolkata. It has started its journey in the year 1937. It is the first cooperative R&D institute, established by Jute Industry in India.

IJIRA is governed by a Council of Management, headed by the Chairman and comprises of 14 members, representing the jute industry, government officials, renowned institutions and eminent professionals. The Director of the institute is appointed by the Council of Management and is the Principal Executive Officer of the Association exercising general power of supervision and coordinating overall activities of the Association. The Director, IJIRA is essentially the Director-cum Member Secretary of the Association.

The main objective of IJIRA is to promote research and other scientific work connected with the jute sector and be an extension centre of jute industry. In order to fulfil its objectives IJIRA has been carrying out consultancy, training for the jute industry apart from transfer of technologies to improve quality as well as quantity of the jute products produced by the jute industry. IJIRA being the only organization in the globe working on technology development of jute fibre processing, also supports Govt. of India with respect to framing of new policies, productivity norms, implementation of various schemes related to jute sector. HRD programmes, inspection and certification process of various jute products supply to the Govt. bodies and exported to the other countries. IJIRA also helps jute industry for its request of trained manpower as well as updating knowledge of its work force. IJIRA has facilities such as NABL accredited testing and calibration laboratories, pilot plants for preparation of experimental samples of jute and jute diversified products. Presently IJIRA has ten laboratories for testing and characterisation of jute and other textile products including eco-testing and three pilot plants covering an area of approximately 54,000 sq. ft. IJIRA has also a library which houses over 6500 books and a large number of journals for the benefit of scientists.

In the journey of services to the nation for 85 years, IJIRA has translated many of the products, processes and technologies to the jute industry. IJIRA has also bagged quite a large number of accomplishments in its crown and made its foot hold strong regarding the R&D of jute and allied fibres. While translation of RBO technology, TKP based sizing methodology, jute bags of various specifications, electronic moisture meter are few of IJIRA's major developments, publication of more than 1,000 papers in renowned journals and filing 130 patents are the accreditation of IJIRA's R&D contribution.

IJIRA has a North Eastern Regional Centre (NERC) at Guwahati, Assam to promote jute-based industry and diversified jute products more effectively in that region. It also has a Power-Loom Service Centre (PSC) under the Office of the Textile Commissioner, Ministry of Textiles, Govt. of India. Apart from testing and sample preparation laboratories and it has a full-fledged Garment Manufacturing Training Centre (GMTC) too, at PSC, Guwahati.

Under the present funding pattern of Government of India, IJIRA has been endeavouring to change its traditional work culture to a new age of activities in the areas of:

- Commercialization of proven technologies
- Bridging gaps between R&D and commercialization
- Catering to changing needs of industry and market
- Improving income by rendering more technical services to industries
- Increasing testing and certification activity to improve revenue
- Taking more industry assignments w.r.t new products and troubleshooting during adoption of technologies by the industry

Membership

At present IJIRA has 65 Primary Members and 4 Associate Members.

Activities of IJIRA during 2021-2022

1. Research and Development on -
 - Quality up-gradation of jute fibres for better utilisation in comparatively higher batches
 - Eco-friendly fibre lubricants alternative to JBO for processing of jute
 - Development of high-speed machinery for jute
 - Development of jute reinforced composite products
 - Development /upgradation of instruments required for quality assessment by the Industry and Govt. authorities
2. Productivity improvement in jute sector
3. Consultancy for
 - Process audit and quality improvement of jute products
 - Chemical / Bio-chemical processing / Environmental aspects
 - Promotion and commercialization of Technical textiles (Jute Geotextile, Jute Agrotextile, Packtech, Mobiltech, Meditech, etc.)
4. Technology transfer to jute mills and other external organisations

5. Quality inspection of B. Twill jute bags procured by State Procuring Agencies and NAFED
6. Quality assurance of Food Grade Jute Products (FGJP) and other value-added jute items
7. Assistance to National Jute Board (NJB) and Office of the Jute Commissioner for various technical issues
8. Activities of IJIRA-NERC:
 - Field level demonstration of technologies (in NE states of India)
 - Training in the field of jute diversified product and garment manufacturing
 - Technical services through physical, chemical and eco-laboratory
 - Entrepreneurship development programme for Power-loom sector of Assam
9. Testing and certification services
10. Standardization of Jute Products with BIS
11. IT applications and Management Information System
12. IPR on newly developed technologies
13. Dissemination of information of new R&D activities, events through publication of research papers, patents, etc.

R&D Activities of IJIRA

• R&D Projects

In FY 2021-22 IJIRA has conducted four nos. of R&D projects sponsored by the Ministry of Textiles Govt. of India and Indian Jute Mills. The projects have been carried out under the scheme for “Research and Development in Textile Industry including Jute” of the Ministry of Textiles. IJIRA has also conducted one R&D project sponsored by Response Merchants Pvt. Limited.

1. Development of High-Speed Roller Drafting System for Improvement in Jute Drawing Frame Productivity

The Roller Drafting machine has been developed under this project at finisher drawing stage of jute processing which is running at a delivery speed 2.7 times higher than the conventional screw gill drawing system presently being used in the jute industry. Extensive trials of this prototype have been taken in two jute mills namely Hukumchand Jute Mill and The Empire Jute Co. Ltd. with favourable results. The machine is simple in design, maintenance free and requires less floor space. The detailed project completion report has already been submitted to MoT.

2. Development of Jute based Textile Preforms and Pultruded Composite Products

Jute textile substrates like jute tape, fabric, yarn and nonwoven have been explored to developed jute reinforced pultruded profiles / structures. Industrial scale trials have been carried out in association with industrial partner Crest Composite Pvt. Ltd. and M/s Ercon Composite Pvt. Ltd. where pultruded Jute thermoset composite using Jute fibre tape/fabric/ yarn and unsaturated polyester resin has been developed.

Bulk quantity of reinforcing material has been prepared for commercial scale pultrusion trial and product development. Required modification in pultrusion process for incorporating jute reinforcing materials is in progress.

3. Development of PLA Laminated Jute as Bio-Compostable Packaging Material

Bio-compostable polymer system has been identified and suitably modified for laminating Jute cloth for developing bio-laminated Jute. The entire system is compostable as per the international standard.

Experimental trials of coating bio-compostable polymer on Jute fabric has been successfully conducted at industrial set-up. Commercial scale trials have been conducted in several industries. Technology and the process have been demonstrated in two Jute industries for commercial manufacturing purpose.

4. Jute based Air Filter media having Anti-Microbial & Odour Absorbing Properties

Bio-compostable Air-filter media from Jute nonwoven has been developed in laboratory scale. Functional properties like Anti-Microbial and Odour Absorbing characteristics have been incorporated in the developed air-filter media by speciality functional treatment. Evaluation of basic filter properties e.g. Filtration Efficiency Test and Air Flow Resistant test have been carried out which has indicated positive attributes.

5. Development of Jute based Biodegradable Floral Block

A fully eco-friendly alternative of floral foam has been developed from Jute. Floral foam is an essential tool for floral decoration worldwide. This foam can hold the fresh flower or foliage stem in the decoration as per their desired position. Floral blocks are mainly manufactured commercially by phenolic or polyurethane foams, which is synthetic and non-biodegradable in nature. But increase of petroleum based products consumption has created critical environmental problem. These products require several years to degrade and in many instances generate toxic decomposition products. Hence, demand of bio-alternative produced from renewable source is increasing daily because of environmental concerns and the depletion of non-renewable resources. To develop biodegradable alternate of floral block jute stick and /or jute pulp is considered to be the best suitable option as it has a complex porous matrix structure, which in combination with other materials can provide all the properties of jute floral block.

Patent application for IJIRA developed technologies

“New Roller Drafting System for Drawing of Jute Sliver” - Patent Appl. No. 202231001838 dated – 12.01.2022

“Jute – Cotton based Eco- Friendly protective cover (face cover) for nose and mouth” – Patent Appl. No. 202031028812 dated 06/07/2021

“Pedal Brake System for Individual Flyers of Jute Spinning Machine” – Patent Appl. No. 202131047685 dated 20.10.2021

Technology Transfer

The following technologies have been transferred to the Mill/ Industry,

- 1) Biochemical Root Softening technology developed by IJIRA is found effective both on hard root cuttings and low-grade uncut jute. So far this process technology has been transferred to 22 jute mills.

The process is now well accepted by the Jute mills and IJIRA Council of Management has decided not to do further promotional activity on this project. However any technical assistance sought by any Mill may be suitably addressed.

- 2) MoU has been signed by IJIRA with M/s, Bengal Biotech & Research, Haur, WB for commercial production of IJIRA-SUBHRA (a bacterial consortium for jute retting under water limiting condition).

Technical Services

1. Quality Inspection of Jute Bags

IJIRA, as an empanelled Inspection Agency of the Office of the Jute Commissioner, is conducting pre-shipment quality inspection of B. Twill jute bags procured by the Govt. of India through various State Procuring Agencies (SPAs). IJIRA is the designated inspection agency of six SPAs and serving the states of West Bengal, Uttar Pradesh, Haryana, Gujarat, Tamil Nadu and Tripura. In FY 2021-22, IJIRA has conducted 1931 numbers of inspections covering a total of 4.63 lakh bales.

Apart from inspection of jute bags under the Office of the Jute Commissioner, IJIRA also conducts inspection of jute bags procured by the National Agricultural Cooperative Marketing Federation of India Ltd. (NAFED).

2. Quality Assurance of Food Grade Jute Products

Services on quality assurance of Food Grade Jute Products (FGJP) have been provided to sixteen Jute Mills who have renewed their Process Capability license from IJIRA to manufacture FGJP for the year 2021-22. A total of 104 lots of FGJP bags have been inspected, tested as per IJO 98/01 and certified by IJIRA for export. In addition, interim process audit of the manufacturing process of FGJP at 14 licensed mills has also been carried out by IJIRA.

3. Training and Consultancy services to Jute Industry

- a. IJIRA has provided consultancy services to Indian Oil Corporation Limited and Bharat Petroleum Corporation Limited for successful implementation of novel poly-aromatic hydrocarbon free (PAH) jute fibre lubricant as a substitute of Jute Batching Oil (JBO) to different jute mills.
- b. IJIRA has extended consultancy services to M/s, RDB Textiles Ltd. for improvement of productivity & quality in jute processing. Diagnostic study has also been carried out at Kamakshi Jute Industries Limited for improvement in overall productivity of mill.
- c. IJIRA has provided training to both above referred jute mill workers and supervisors/staff for their skill development in various jute processing departments of M/s RDB Textiles Ltd., and Ganges Jute Manufacturing Co. Ltd.

4. Testing of Jute and Textile Products

The testing services of IJIRA are available to jute mills, textile mills, government agencies, institutions and other bodies. Many of IJIRA's test parameters are NABL accredited according to relevant ISO/IEC 17025:2017.

➤ Physical Testing Laboratory:

General Samples tested (External & Internal): **2228 Nos.**

Moisture Meter Calibrated: **276 Nos.**

Organisation served (Govt., Non-Govt. and Industry): **102 Nos.**

➤ Chemical Testing Laboratory:

FGJP Lots inspected and tested: **104 Nos.**

Fabric sample (external) tested: **168 Nos.**

License given to Jute mills for manufacturing FGJP: **14 Nos.**

❖ **New development work**

Blue Tooth enabled Digital Moisture Meter

IJIRA modified the “IJIRA Digital Moisture Meter” to take moisture regain % readings at raw jute bale using bluetooth and to record the MR % readings directly in any android electronic devices through an app. The work started in the month of September 2021 and development completed in March 2022. It is supplied to the customer with an app where the user can record all readings directly. All moisture related calculations and results, like average moisture regain (MR %) of the lot , CV% of measured lot-MR %, lorry no., raw jute quality etc are available in report after saving the programme in the app. The report is printable and electronically transferable to other devices.

In FY 2021-22, IJIRA has served 72 jute mills, 06 Govt. organizations and 29 other organizations through its testing services.

5. Capital Subsidy for Acquisition of Plant and Machinery (CSAPM)

Under this scheme, National Jute Board (NJB) and the Technical Committee of CSAPM entrusted IJIRA for technical activities. Following is the list of technical activities carried out by IJIRA under the scheme,

- a. Identification and enlistment of different Jute Diversified Products (JDPs)
- b. Identification of Core & Non-core machinery and their manufacturers for producing different JDPs
- c. Identification of machinery manufacturers

 **New R & D Project Proposals:**

The prime focus of research & development of IJIRA has always been industry driven projects. During this FY 2021-22 IJIRA has submitted following R&D projects under NTTM scheme to the MoT & National Jute Board.

❑ **List of project submitted under National Technical Textiles Mission (NTTM) scheme, Ministry of Textiles, Govt. of India**

SI No.	Name of the projects	Collaborations
1	<p>Development of cost effective performance specific natural fibre and agro-waste based geotextiles and creation of construction and environmental related design parameters for slope stabilisation and soil erosion in the North-Eastern India.</p> <p>Date of submission: 07.07.2021</p>	<p>Institute Partner: Indian Institute of Engineering Science and Technology (IEST), Shibpur, West Bengal Manipur Institute of Technology, Imphal, Manipur</p> <p>International Expert: GEOscope GmbH, Germany</p> <p>Industry Partner: A.H. Meyer Maschinenfabrik GmbH, Germany Birla Corporation Limited, Unit: Birla Jute Mill, India Gloster Limited, India</p>
2	<p>Development of technology for producing affordable, light weight natural fibre and agro waste based fibre reinforced composite components for different sectors.</p> <p>Date of submission: 07.07.2021</p>	<p>Industry Partner: Paracoat Products Ltd Patton International Ltd Steer Engineering Pvt. Ltd</p>
3	<p>Upgradation of jute fibre through an Eco-friendly Ultrasonic Technology and standardization of a method for objective evaluation of jute fibre quality.</p> <p>Date of submission: 07.07.2021</p>	<p>Institute Partner: Hielscher Ultrasonics GmbH</p>
4	<p>Technology development for preparation of technical yarn from Jute as alternative to Flax & Hemp yarn for application as Technical Textiles for Fibre Reinforced composites, Packaging, Automotive, Aerospace and other high performance Textile Applications.</p> <p>Date of submission: 07.07.2021</p>	<p>Knowledge Partner: Dept. of Materials, University of Manchester, UK</p> <p>Machinery Manufacturer Partner: Lagan Engineering, Kolkata, India</p>
5	<p>Development of novel concept for production of agro-mulch for Environment Social</p>	<p>Institute Partner:</p>

SI No.	Name of the projects	Collaborations
	Governance (ESG) based business development on the principle of 'More from Less' to improve farm income in mission mode Date of submission: 01.02.2022	Rajmata Vijayaraje Scindia Krishi Viswa Vidyalaya, Madhya Pradesh Assam Agricultural University, Assam Industry Partner: Gloster Limited Birla Corporation Limited Ludlow Jute & Specialities Limited

❑ **List of project submitted to National Jute Board, Ministry of Textiles, Govt. of India**

- a. Design and Development of Suitable Jute Cloth as Paving Fabric for use in Arresting Reflection Cracks and Potholes in the Riding Surface of Roads
- b. Exploration of usage of Engineered Jute and Agro-waste based Agro-textiles for Improving Farmers' Income on their Produce
- c. Development of Technology for Producing Light-weight, Jute Fibre and/or Jute Stick and/or Wool based Reinforced Composite Components for Automotive Sector

 **Other activities:**

Apart from R&D and associated services, other notable work done by IJIRA in FY 2021–22 are given below –

1. For wider acceptance of test results, 22 test parameters of IJIRA are accredited by the NABL. The re-accreditation of laboratories with new version of ISO/IEC 17025:2017 has been done for Physical and Chemical laboratories [Certificate Number: TC-7365]. Similarly, IJIRA has got renewed accreditation of its Moisture Meter Calibration laboratory through NABL.
2. IJIRA is participating in different committees of BIS to standardise jute products

 **Funding**

IJIRA has received Rs.165.00 lakh as grant-in-aid from Ministry of Textiles, Government of India during the FY 2021-2022.

SECTION II

**Activities in North - East Region
(2021-22)**

✚ About IJIRA-North Eastern Regional Centre, Guwahati

The North Eastern Regional Centre (NERC) of IJIRA at Guwahati has been set up for promotion of natural fibres-based industries including Jute in North Eastern Region. It has also a Powerloom Service Centre (PSC) under Office of the Textile Commissioner, Ministry of Textiles, Govt. of India along with a full-fledged garment manufacturing and wet processing training centre. The Centre at Guwahati provides technical support and guidance to textile and clothing sector through training, testing, design and development, technical consultancy and dissemination of information on schemes/ initiatives of Ministry of Textiles, Govt. of India for development of textile and clothing sector in NE Region.

As Centre of Excellence in jute geotextiles in the NER, IJIRA-NERC in association with state governments of the NER states identify sites require geotechnical intervention, conducts Techno Economic Viability study, and participates in State Level Coordination Committee meetings. The centre also assists in tender process of purchasing jute geotextiles under the scheme, actively involves in application of geotextiles as well as periodic monitoring of the sites. For understanding the basic soil behaviour of the sites, the centre has a soil testing laboratory.



Premises of IJIRA-NERC & PSC, Guwahati

✚ Activities of IJIRA-NERC

A. JUTE GEO-TEXTILES APPLICATION WORKS FOR SOIL EROSION CONTROL IN ONE OF THE TEA ESTATE IN THE STATE OF ASSAM

A study was conducted in the Binnakandy Tea Estate under Cheviot Agro Industries in Cachar District, Assam where two types of soil erosion namely Channel formation because of top soil erosion due to surface run off as well as high rainfall and Soil creep, downhill slip of slope.

The possible causes observed are High intensity rainfall and with longer duration, Type of soil, Type of work practices like uprooting of bushes and shrubs etc. Based on the survey, it was decided to take up Jute Geotextiles up on a trial and error method.

DETAILS OF SLOPE STABILIZATION OF BINNAKANDY TEA ESTATE IN CACHAR DISTRICT, ASSAM

1. SITE CONDITION

Problem Observed	<ul style="list-style-type: none"> • Top soil erosion due to surface run off because of high rainfall. 	
Possible Causes	<ul style="list-style-type: none"> • High intensity rainfall and with longer duration: High rainfall with longer duration in the month of June - July • Type of soil, Soil compaction, low organic matter, loss of soil structure etc • Slope Gradient and Length 	
Existing Slope	40-60° with inclined slope length of appx. 30 meter	Slight dressing and clearing is required on the affected sites.
Average Annual Rainfall	More than 3,000 mm	High rainfall in July to August

2. SOIL: Clay Loam

Sand: 5%, Silt: 25%, Clay: 70%

3. RAINFALL

Rainfall	Normal RF (mm)	Normal rainy days (Number)	Normal Onset (specify week and month)	Normal Cessation (specify week and month)
SW monsoon (June-Sep)	1900	90	2nd week of June	Last week of September
NE Monsoon (Oct-Dec)	250	20	2nd week of October	Last week of December
Winter (Jan- March)	200	12	2nd week of February	Last week of March
Summer (Apr-May)	900	25	1st week of April	Last week of May
Annual	3250	147		

Source: Department of Agriculture, Cachar, Assam

Area of affected portion treated: 170 sq. meter

Remedial measures undertaken: A corrective plan consisting of a combination of 500 Open weave Jute Geo-textiles and vegetative measures by planting tea was implemented.

Few snaps of the sites before and after installation of JGT Material in the project area around 170 sq. meter have been shown below.



Before installation of JGT at Binnakandy Tea Estate



During installation of JGT at Binnakandy Tea Estate



After installation of JGT Material at Binnakandy Tea Estate

B. SKILL DEVELOPMENT TRAINING PROGRAM (Readymade Garment Training Program) :

North East Youth Forum (Yuva Vikash Kendra) Guwahati works towards nurturing Socio-economic leadership among the youths of North East India region with assistance of NERC-IJIRA has started four months training program on Readymade Garments Manufacturing during this period.



C. TECHNICAL CONSULTANCY, AMC AND TRAINING:

IJIRA-NERC & PSC had carried out technical consultancy as well as AMC works at Indian Institute of Handloom Technology, Guwahati and training on Power loom have been provided to the final year student of the said Institute.

IJIRA-NERC & PSC had undertaken a six months technical consultancy and training program on Power loom Machineries at Power loom Estates, Imphal under Directorate of Handloom & Textiles, Govt. of Manipur. All 36 Power loom Machines had been installed, run and produced fresh fabrics and proper training had been given to the employees under the said department successfully.



Few snaps during training program at Power loom Estate, Imphal

D. YARN & FABRICS SAMPLE TESTING :

IJIRA-NERC & PSC had carried out Yarn & Fabrics Sample testing supplied from different Organizations like Nagaland University Kohima, Assam Agriculture University Jorhat, Research Scholar of different Universities / Colleges, Factories / Firms available in the North Eastern Region.

E. SURVEY OF POWER LOOM UNITS :

IJIRA-NERC & PSC had carried out the survey of power loom units available in the North Eastern Region and finding out the products varieties producing by the respective units.

F. QUALITY INSPECTION OF B. TWILL JUTE BAGS:

IJIRA -NERC is carrying out Inspection of B. Twill jute bags in the Jute Industries during this period in Assam and North Bengal area.

SECTION III

Details of R&D Activities (2021-22)

Sponsored R&D Projects

In FY 2021-22 IJIRA has conducted four R&D projects sponsored by the Ministry of Textiles, Govt. of India and Indian jute mills and one project sponsored by Response Merchants Pvt. Ltd. The completion report of Project Sr. No. 5 has been submitted to the respective sponsoring body. The details of each project in the light of activities conducted and major observations are given hereunder –

Project Sr. No. 1

Project Title: Development of High Speed Roller Drafting System for Improvement in Jute Drawing Frame Productivity

Sponsored by: Ministry of Textiles, Govt. India and Indian Jute Industry

Project Team: Partha Sanyal (PI), Debiprasad Gon, Palash Paul, Gopal Mukhopadhyay, Budhadeb Das, Dharmendra Singh

Objective:

- Development of roller drafting system for jute finisher drawing frame for achieving higher production (at least double production *i.e.* Delivery speed of 300 fpm than the conventional Screw-Gill drawing frame)
- Standardization of the machine and process parameters
- Commercialisation and industrial acceptance of Roller Drafting Jute Finisher drawing frame

Work done :

A prototype pilot scale roller drafting jute finisher drawing frame was developed under this project in collaboration with M/s Indian Jute Machinery Research & Development (IJMRD).

Industrial shop floor trial of the developed machine had been successfully carried out at M/s Hukumchand Jute Mill earlier. The developed machine was then shifted to M/s The Empire Jute Co. Ltd for extensive shop floor trial.

The output sliver was evaluated at mill level and the performance was found to be satisfactory in comparison to the output sliver from screw gill finisher drawing system running at 160 fpm. The output sliver from roller drafting frame was then fed to a pilot scale 40 spindles 4¼" Slip Draft Spinning frame to check the production efficiency of the machines. Output yarn was also been tested at Mill Level for quality evaluation.

It was found that the resultant yarn performance was satisfactory in terms of count, count CV%, strength, strength CV% etc. The production performance of developed machine had also been found to be satisfactory. Final Project completion report had been submitted to the Office of the Jute Commissioner and Ministry of Textiles.

Conclusion:

- ❑ High speed Roller drafting drawing system can be introduced in the jute processing system with high productivity without hampering the quality of sliver
- ❑ The developed roller drafting system is simpler in design and requires less maintenance and spare parts
- ❑ The developed roller drafting system requires less floor space
- ❑ It is estimated that adoption of this technology by the jute industry will save Rs. 25000/day in a 100 ton mill.

Project Sr. No. 2

Project Title: Development of Jute based Textile Preforms and Pultruded Composite Products

Project Team: Dr. Md. Safikur Rahaman, Debkumar Biswas, Mamata Sarkar

Project Objectives:

- To develop and apply coating–cum-compatibilizing polymer for jute sliver / yarn
- To develop Jute-based flat tape type textile preforms by coating with polymer
- Production & performance evaluation of Jute based pultruded profiles
- Promotion of Jute Pultruded profiles as wood substitute with improved performance

Conclusion:

From this study, the following conclusions have been drawn:

- ❑ Jute fibre in different forms with suitable fabric engineering can be used for natural fibre pultruded composite development.
- ❑ Pultrusion machine can be used to fabricate pultruded composite products either using conventional fibre or natural fibre composites.
- ❑ The matrix system for pultruded composites can be derived from synthetic or biopolymers.

- ❑ There is still huge scope of work to optimize the processing parameters of pultruded natural fibre composites.
- ❑ Pultruded composites can also use thermosetting as well as thermoplastic poly-mers as matrices.
- ❑ The work on pultruded jute composites has been progressing ranging from characterization to product development.

Project Sr. No. 3

***Project Title:* Development of PLA Laminated Jute as Bio-Compostable Packaging Material**

***Project Team:* Dr. Md. S. Rahaman, Shri Debkumar Biswas, Smt. Mamata Sarkar**

Project Objectives:

- To develop completely bio-compostable Jute based packaging material using bio-compostable plastics.
- Standardization of the production process.
- Commercial scale production study

Conclusion:

- ❑ One bio-compostable polymeric product has been identified based on laboratory study for conducting pilot scale trial on the machine.
- ❑ Several pilot scale bio-compostable lamination trials have been carried out at different mills.
- ❑ About 1200 m production trial of bio-compostable laminated Jute fabric has been taken with variation in film thickness and control of various temperature zones of the extruder, die head and running speed of the fabric at Gloster Ltd. where fault free laminated fabrics have been developed.
- ❑ Commercialization trial has been conducted at one prospective jute mill where under an optimized condition, film weight of 75-90 g/sq.m has been achieved.
- ❑ Further processing parameter optimization shall be continued as per the industry requirements.

Scope for Future Work

- 1) Industrial scale trial for process standardization

- 2) Techno-economical study for industrial adaptation to be conducted along with scope of export potentiality needs to be estimated through detailed study
- 3) Commercialization of the technology in association with collaborating industry

Project Sr. No. 4

***Project Title:* Jute based Air Filter media having Anti-Microbial & Odour Absorbing Properties**

***Project Team:* Dr. Md. Safikur Rahaman, Debkumar Biswas, Mamata Sarkar, Partha Sanyal**

Project Objectives:

- To develop bio-compostable, anti-microbial Air Filter for Air Handling Units (AHUs) based on Jute textiles.
- Standardization of treatment process of Jute textiles and trial for production in a commercial set-up
- Evaluation of the developed Jute based air filter media and its use in high-performance application.

Work Done:

The objective of this study was to determine whether the use of natural fibres would make for a suitable alternative to current synthetic filters for commercial and residential applications. The tests conducted established a MERV of the filter by measuring the particle collection efficiency, for three variable size ranges: 0.3-1.0 μm , 1.0-3.0 μm and 3.0-10.0 μm , upstream and downstream of the filter. Two schemes of filter media fabrication are explored having variable weight density. The natural fibre filter media made of NW-PLA-NW displayed the highest particle collection efficiency with a MERV of 11. Filter media made of NW-PLA-Leno achieved a MERV of 8. Each of the filters assessed reached a minimum of MERV 8, making them more than applicable to be used in residential and commercial HVAC systems as filters larger than a MERV 4 is required. Also the anti microbial natural polymer i.e. Chitosan application has imparted the antimicrobial properties to the filter media which is an important attribute of the natural fibre based filter development.

Scope for Future Work

- Field trial of filters in AHU (Air Handling Unit)

- Application oriented air filter fabrication and their market exploration
- Explore the possibility of jute filter media in cement plant

Project Sr. No. 5

Project Title: Development of Jute based Biodegradable Floral Block

Sponsored by: Response Merchants Pvt. Ltd.

Project Team: Mamata Sarkar, Goutam Prasad, Sukumar Das, Debkumar Biswas

Project objectives:

- To develop a floral block that are developed from a natural biodegradable source
- To provide floral block made from non-hazardous material to reduce health hazards compared to the usual floral foam in practice.
- To provide a floral block with good hygiene and safety procedures without any special requirements for storage.
- To provide a floral block to make the entire floral arrangement 100% compostable and capable of replacing the petrochemical components.
- To develop a floral block that has physical properties including rigidity, crisp texture, low density, hydrophilicity and ease of flower implant for decoration etc.
- To provide a floral block that does not produce or release any toxic components during use and subsequent biodegradation.

Conclusion:

Based on the achievements of the project activities this may be concluded that,

- Fully bio-compostable alternative of floral foam has been developed from jute, a renewable source.
- The results indicated that Jute stick based floral block can be a substitute of commercial synthetic floral foam with properties close to the synthetic foam.
- The Jute stick based floral blocks are potentially cost effective than the market available commercial floral foam as it is prepared from the waste jute materials.
- The manufacturing process is easy and simple. The manufacturing unit can be set up in small scale.



Pre-project Studies

In order to formulate actual R&D project proposals, IJIRA usually carryout pre-project studies for establishing the concept after getting approval from IJIRA Council of Management. The outcome of these studies is used as the backbone of new R&D project proposals. Pre-project studies conducted in FY 2021-22 are given below –

Pre-Project No.1

Project Title: Development of Technology for producing affordable lightweight, natural fibre and agro-waste based fibre reinforced composite components for different sectors

Sponsored by: IJIRA-sponsored research study

Project Team: Goutam Prasad, Mamata Sarkar, Partha Sanyal

Project Objectives

1. Development of local agro-waste reinforced composite granules and comparison of their properties with the imported fibre based granules
2. Development of technology for bio-composite materials to replace existing plastic-based domestic products like overhead water tanks, waste bins, plant pots, buckets etc.
3. Development of microwave compatible parts with high thermal insulation properties by utilizing hybrid natural fibre such as agro-waste and deccani wool.
4. Technological concept for the new generation NVH challenges faced in modern EVs
5. Import substitution by replacing partially polymer products (which are majorly imported from China) with agro fibre reinforcement
6. Development of greener and lighter automotive parts to make fuel-efficient, low-polluting vehicles
7. Conversion of agro-waste into pulp sheet for utilization of agro-waste and easy transportation
8. Industrial growth in the rural sector, employment generation and benefit to the farmers by utilizing agro-waste.

Work Done

- Development of jute stick polypropylene composite (parcel shelf) through kneading-calendaring technology.
- Feasibility study on making PP granules using jute fibre, caddies and jute stick through twin screw extruder technology.
- Development of structural electronic items using jute stick LLDPE granules through injection moulding

Pre-Project No.2

Project Title: Development of flyer brake system for jute spinning machine

Sponsored by: IJIRA-sponsored research study

Project Team: Palash Paul, Partha Sanyal, Gopal Mukhopadhyay, Wasim Ali, Dharmendra Singh

IJIRA has developed a prototype of flyer brake system and attached it in the spinning machine in its pilot plant. The system has been tested with positive results.

Preliminary discussion has been made with M/s Bhoumik Calculator for its commercialization. Initially it has been planned that the paddle brake system will be fitted in a 40 spindle 4¼" SD Spinning frame at Empire Jute Mill.

Pre-Project No.3

Project Title: Development of new Baxter flyer for jute spinning machine

Sponsored by: IJIRA-sponsored research study

Project Team: Palash Paul, Partha Sanyal, Gopal Mukhopadhyay, Wasim Ali

IJIRA has jointly worked with M/s Sugan Engineering Pvt. Ltd., Kolkata for the development of new Baxter flyer system. In this development, the space for listing belt has been reduced from 35 mm to 20 mm and provision for bobbin lifting has been increased upto 7 ½". The weight of the baxter flyer system has remained same (2.300kg) as conventional. Two such flyers are presently running on experimental basis at 40 spindle 4 ¼" pitch SD spinning frame at Empire Jute Mill. It has been found that bobbin lifting of 7 3/8" has been possible with this new Baxter flyer arrangement as a result it has been observed that there is weight gain of 50 g/bobbin for 12lb/spy yarn.

SECTION IV

**Mill Studies
&
Technical Services
(2021-22)**

Process Efficiency and Quality Improvement Studies at Jute Mill

Mill Study No. 1.

Title : Process Study of new Jute fibre Lubricant - Servo Ecofin N from Indian Oil Corporation Limited

Name of the Mill : Hukumchand Jute Mill, Hazinagar, Halisahar, West Bengal

Group :Mr. S.G. Saha, Mr.Gopal Mukhopadhyay, Mr. Suvankar Bej, Mr. Dharmendra Kumar Singh, Mr. Samar De, Mr. Jayjit Mukherjee, Mr. Arindam Das, Mr. Atiar Rahaman Dewan, and Mr. Partha Sanyal

IOCL has developed a Poly Aromatic Hydrocarbon (PAH) free new jute fibre lubricant known as Servo Ecofin-N. In order to see the efficacy of Servo Ecofin N in jute processing at the shop floor, IOCL has approached Indian Jute Industries' Research Association (IJIRA) to study efficacy of jute processing with Servo Ecofin –N at Hukumchand Jute Mill.

Accordingly, process study has been carried out in two phases at Hukumchand Jute Mill. In the first phase, Spinning preparatory process of Hessian 8.5 lb/spy yarn has been studied while in second phase, Heavy Sacking 13lb/spy yarn has been studied with Servo Ecofin N.

Conclusion:

The yarn preparatory process study has been carried out at Hukumchand Jute Mill from 16.11.2021 to 25.12.2021 for Hessian and Heavy Sacking Yarn qualities using newly developed jute fibre lubricant Servo Ecofin N.

It has been found that the emulsion stability with Servo Ecofin N has been found to be stable upto 48 hrs. During the process study, it has been found that moisture retention property of fibres, using the said oil, is good and there is no process difficulties observed during the study at different yarn preparatory stages and in spinning. The Card droppings % has also been found to be within the limit. The spinning production with the said oil is at par with conventional JBO processing. Yarn quality has also been observed to be at par in comparison to JBO processed yarn.

It is concluded that the performance of Servoecofin N in jute processing for both Hessian and Sacking qualities (S4A) is comparable with JBO processing. However, detailed study over a period of time is required considering seasonal variations and other related factors.

Mill Study No. 2

Title	: Feasibility study of MAK JBO, a new jute fibre lubricant from Bharat Petroleum Corporation Limited (BPCL) in jute processing
Name of the Mill	: Dalhousie Jute Company, Champdany, Hooghly and Ambica Jute Mills Limited, Belur, Hooghly, WB
Group	: Mr. S.G.Saha (PI) , Mr. S.De, Mr. G. Mukhopadhyay, Mr. Subhankar Bej, Mr. Dharmendra Singh, Mr. Partha Sanyal, Dr. S.K. Chakrabarti (Co-ordinator)

IJIRA has carried out study to establish new Poly Aromatic Hydrocarbon (PAH) free odourless jute fibre lubricant named MAK JBO (Product of BPCL), as an alternative to conventional Jute Batching Oil (JBO).

Trials have been carried out in two phases. In the first phase, trials have been conducted at IJIRA pilot plant for 10.5 lb/spy sacking warp quality and 8.50 lb/spy Hessian warp/weft quality up to spinning stage with varying oil add on %.

In the second phase, process studies have been carried out at mill shop floor of Dalhousie Jute Company and Ambica Jute Mills Limited. After successful completion of mill trials following conclusions have been drawn:

1. Emulsion stability of MAK JBO is satisfactory and found to be stable for more than 48 hours
2. Moisture retention property is good and no process difficulties have been observed during the study at spinning preparatory stages both at pilot plant and mill shop floor trials
3. Droppings under the processing machinery is comparable to JBO/Ecofin N
4. Spinning performance has been found to be normal in comparison to JBO/Ecofin N
5. Yarn quality parameters have been found to be satisfactory in all the cases
6. Detailed study over a period of time is required considering seasonal variations and other related factors

Mill Study No. 3

- Title** : **Diagnostic Study to improve the yarn quality and efficiency in weaving section (S4A- Loom)**
- Name of the Mills** : **Kamakshi Jute Mill, Chakchaka, Coochbehar, WB**
- Group** : Shri Palash Paul, Shri Partha Sanyal, Shri Gopal Mukhopadhyay, Shri Suvankar Bej, Shri Dharmendra Kumar Singh and Shri Buddhadeb Das

M/s Kamakshi Jute Mill has been facing issues pertaining to low efficiency in S4 weaving and irregularities in sliver & yarn generated in back process. Accordingly, IJIRA has been asked to conduct studies to identify the reasons for such efficiency loss or yarn variation. In addition to that, IJIRA has also been requested to carry out technical audit of yarn preparatory section to find out the actual reason of yarn irregularity in 13lb/spy section.

Accordingly, studies have been carried out by IJIRA technical team from 14th February, 2022 to 19th February, 2022. During studies, the details of installed machinery, stage-wise sliver weight, snap study & time study of the machinery have been carried out to identify the reasons. Though the study is primarily for examining the reason for low weaving efficiency in S4A section followed by recommendation for improvement, the study has also been conducted on the overall process in the mill. In addition, Training-cum-awareness session has been conducted among the staff regarding good manufacturing practices, quality control measures, sampling plan, testing procedures, etc.

Using the process data and associated yarn characteristics, the analysis of process performance has been evaluated and accordingly recommendations have been given to the mill for improvement. It has been reported that mill has found the recommendations effective and improvements have been found through implementing the suggestions given to them.

Mill Study No. 4

Title : **Diagnostic Study to analysis the cause of loss in efficiency at drawing stage**

Name of the Mills : **RDB Textiles Limited, Unit: Victoria Jute Mill, WB**

Group : Shri Partha Sanyal, Shri Palash Paul, Shri Gopal Mukhopadhyay, Shri Suvankar Bej, Shri Dharmendra Kumar Singh

M/s RDB Textiles Limited (Unit – Victoria Jute Mill) had approached IJIRA to carry out a diagnostic study at Drawing Section in their mill to examine machine condition and to identify reasons of actual loss in efficiency. It was also requested to determine the scope of quality and productivity improvement in the drawing section and subsequently suggest corrective measures to achieve higher productivity. Accordingly, diagnostic study had been undertaken by IJIRA Technical Team from 09.08.2021 to 16.08.2021 through detailed diagnosis of machines, process parameters and quality in the drawing sections of the Mill No.- 2.

After identifying the major areas of concerns related to quality and productivity, corrective measures had been taken by the mill and had found to be beneficial.

Technical Services

Technical Service No. 1

Title : Testing and Calibration services of Physical Testing Division

Team : Ms. Soumita Chowdhury, Mr. K.N. Singh and Mr. Dipankar Das.

Physical testing division is providing testing services to the Jute industry as well as other government and non-government organizations. Fibre, yarn and fabrics (including Geotextiles and non woven synthetic filter bags) are tested at the laboratory regularly. IJIRA has a NABL accredited Calibration Laboratory for Moisture Meter. This division has served 72 Jute Mills, IJMA, 04 Govt. organizations and 28 other organizations.

Total no. of commercial tests done for member and non member organisations –

Various tests related to fibre, yarn, fabric, Geotextiles and jute bags have been carried out. Details are given below:

- Total no. of general samples received (External) - **2071**
- Total no. of IJIRA Moisture Meter calibrated- **276**

Total no. of tests done for different internal project and pre-projects –

- Total number of sample tested for project and pre-project works are - **157**

Earning from External Sample Testing at Physical Testing laboratory in the financial year 2021-22 (excluding tests under internal projects and pre-projects) was **Rs. 6,51,130** (excluding tax), from Calibration **Rs. 3,75,738**(excluding tax). Earning from Vendor Certification was **Rs. 2,30,150**. Total Income - **Rs 12,57,018**.

Total number of organisation served are- **102**

Technical Service No. 2

Title : Testing services of Chemical and Food Grade Jute Products Testing Cell

Team : S.G.Saha (In-Charge), S.De, D.Samanta, R.K.Paral, A.R. Dewan, Dr.S.K.Chakrabarti

- Services on quality assurance of Food Grade Jute Products (FGJP) have been provided to sixteen Jute Mills who has renewed their Process Capability license from IJIRA to manufacture FGJP.
- In the same year, total 104 lots have been inspected, tested as per IJO 98/01 and certified by IJIRA for export. In addition, interim process audit of manufacturing process of FGJP at 14 licensed mills has also been carried out by IJIRA.
- 168 external samples have been tested for various chemical test parameters

Technical Service No. 3

Title : Vendor Certification Project work

Team : Ms. Soumita Chowdhury, Mr. Biswarup Nandi, Mr. Apurba Bhar, Mr. Joyjeet Mukherjee, Mr. Arindam Das

- Vendor Certification Project work is done for preparation of Bench Mark for Critical Spares Parts of different machinery used in Jute Mills. Two Vendors are certified under this project during the financial year 2021-22, namely,
 1. Lagan Engineering Company Limited
 2. Golden Industries
- Proposal for Spare parts inspection at mill store level is prepared for implementation at mill store level.

Technical Service No. 4

Title : Capital Subsidy for Acquisition of Plant and Machinery (CSAPM)

Team : Partha Sanyal, Gopal Mukhopadhyay, Biswarup Nandi, Arindam Das and Joyjit Mukherjee

Under this scheme, National Jute Board (NJB) and the Technical Committee of CSAPM entrusted IJIRA for technical activities. Following is the list of technical activities carried out by IJIRA under the scheme,

- d. Identification and enlistment of different Jute Diversified Products (JDPs)
- e. Identification of Core & Non-core machinery and their manufacturers for producing different JDPs
- f. Identification of machinery manufacturers

Technical Service No. 5

B. Twill Jute Bag Inspection

Since 2016, IJIRA as an empanelled Inspection Agency of the Office of the Jute Commissioner has been conducting quality inspection of jute bags procured by various State Procuring Agencies (SPAs). This year (FY 2021-22) IJIRA has been conducted inspection of Govt. B. Twill jute bags on behalf of following State Procuring Agencies –

- West Bengal Essential Commodities Supply Corporation Ltd.
- Food & Civil Supplies Department, UP
- Tamil Nadu Civil Supplies Corporation
- Haryana State Warehousing Corporation Panchkula

In FY 2021-22, IJIRA has conducted 1931 numbers of inspections covering a total quantity of 4.63 lakh bales of Govt. B. Twill jute bags.

Services provided to the Jute mills are given below:

1. Angus Jute Works
2. Atlanta Modular Pvt. Ltd.
3. Ambika Jute Mills Ltd.
4. Aditya Translink Pvt. Ltd.
5. AI Champdany Industries Ltd.
6. Alliance Mills (Lessees) Ltd.
7. Auckland Jute Mills
8. Agarpara Jute Mills Ltd.
9. Anglo India Jute & Textile Industries Pvt. Ltd.
10. Auckland International Ltd.
11. Assam Cooperative Jute Mills Ltd.
12. Bowreah Jute Mills Pvt. Ltd
13. Budge Budge Co. Ltd.
14. Bally Jute Co. Ltd.
15. Baranagore Jute Factory Plc.
16. Birla Corporation Ltd.(Unit: Birla Jute Mill)
17. Cheviot Co. Ltd.
18. Caledonian Jute and Industries Ltd.

19. Calcutta Jute Manufacturing Co. Ltd.
20. Daaksh Jute LLP
21. Dalhousie Jute Company
22. Delta Ltd.
23. Empire Jute Company Ltd.
24. Gloster Ltd.
25. G.S. Jute Pvt. Ltd.
26. Ganges Jute Private Ltd.
27. Goyal Merchants Pvt. Ltd.
28. Hoogly Mills Co. Ltd.
29. Hoogly Infrastructure Pvt. Ltd.
30. Howrah Mill Co. Ltd.
31. India Jute Mill
32. Jutex Industries Private Ltd.
33. Janakalyan Vinimoy Pvt. Ltd. (Unit: Megna Jute Mill)
34. Jagatdal Jute & Industries Ltd.
35. Kamakshi Jute Industries Ltd.
36. Kaliyaganj Agro Trading (P) Ltd.
37. Keshava Jute Mills Pvt. Ltd.
38. Kanknarrah Jute Pvt. Ltd. (Unit: Naffar Chandra Jute Mill)
39. Kamarhatty Co. Ltd.
40. Kankara Co. Ltd.
41. Kelvin Jute Mill (Unit Tend Vyapaar Ltd.)
42. Ludlow Jute & Specialties Ltd.
43. Loomtex Engineering (Pvt.) Ltd.
44. Mahadeo Jute & Industries Limited
45. Nellimalrla Jute Mills Co. Ltd.
46. North Brook Jute Co. Ltd.
47. Premchand Jute and Industries Pvt. Ltd.
48. Prabortak Jute Mills Ltd.
49. Reliance Jute Mills (International)Ltd.
50. RDB Textiles Ltd
51. Sunbem Vanijya Pvt. Ltd.
52. Shaktigarh Textile & Industries Ltds.
53. Shree Gouri Shankar Jute Mills Ltd.
54. Sarda Jute Mill Pvt. Ltd.
55. Tepcon International (India) Ltd.
56. The Naihati Jute Mill Co. Ltd.
57. Uma Spinners Pvt. Ltd.
58. Vijashre Pvt. Ltd .(Unit: Fort William Jute Mill)
59. Ganges Manufacturing Co. Ltd.
60. Jaikishandass Mall Jute Product Ltd.
61. Winsome International Ltd.
62. Maa Annapurma Jute carpet Ind. Pvt. Ltd.

63. Sri Ganesh Jute Mills
64. Mahabir Jute Mill Ltd.
65. Krushna Hessian
66. Sri Krishna Jute mill
67. Gondalpara Mill
68. Maheshwari Jute and Spinners Pvt. Ltd.
69. HSB Agro Ind. Ltd.
70. DJ Agro Industrial Project Ltd.
71. Shivansh Agro Ind. Ltd.
72. Pawan Kumar & Brothers

Services provided to different organisations related to jute are given below:

1. Semuda Corporation
2. Sht. Jute Merchants Pvt. Ltd.
3. Vijay Kumar & Co.
4. Indian Jute Mills Association
5. India Electronics Inc.

Services provided to the non-Jute organisations are given below:

1. Arfan Commercial Corporation
2. Classic Tailors
3. Filter & Protect
4. H.A. Garments
5. Kayal Enterprise.
6. Mina textiles
7. MMP Filtration Pvt. Ltd.
8. Rohan Engineering Enterprise
9. Skylark
10. Tant Kuthi
11. Well Made
12. Zam Zam Textile
13. Khan Enterprise
14. Galary Tailors
15. Pampa Garments
16. Fit-Well
17. Tribeni Enterprise
18. Varsace apparels
19. Gajmukh Vinimay Pvt. Ltd.
20. Srijan Residency LLP
21. Rajnandinee Engineers Pvt.
22. Suntara Dresses
23. S & I B Services
24. SHT Jute Merchant

Services given to different Govt. organisations are given below:

1. National Jute Board
2. The Jute Corporation of India Ltd.
3. The Office of the Jute Commissioner
4. The West Bengal state Handloom Weavers Co-operative Society Ltd. (Tantuja)

SECTION V

**Organizational Highlights
(2021-22)**

Organizational Highlights

1. Staff 2021-22

- (a) Director - Dr. Anil Kumar Sharma
 (b) Deputy Directors - Dr. S. K. Chakrabarti
 (c) Staff Strength

(i)	<u>Under IJIRA Pay Roll</u>			
	Scientific Staff	-	10	
	Technical Staff	-	26	
	Administrative	-	09	Total: 45
(ii)	<u>Contractual Staff</u>			
	Scientific	-	-	
	Technical	-	02	
	Administrative	-	09	
				Total: 11
(iii)	<u>Outsourced Staff</u>			
	Scientific	-	-	
	Technical	-	02	
	Administrative	-	02	Total: 04

3. Resignation: 01

Shri Palash Pal	Scientist	14.03.2022
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4. Retirement: 11

Dr. S. K. Chakrabarti	Dy. Director	31.10.2021
Shri Sakshi Gopal Saha	Scientist	31.03.2022
Shri Debabrata Samanta	Technical Officer	31.03.2022
Shri Samar De	Technical Officer	31.03.2022
Shri Madan Nath	Technician	30.09.2021
Shri Amar Sinha	Technical Helper	31.03.2022

Shri Samir Chowdhury	Technical Helper	31.03.2022
Md. Anis	Peon	31.03.2022
Shri Swadesh Ch. Das	Technical Helper	31.03.2022
Shri Goutam Roy	Assistant HR	31.03.2022
Shri Debu Gupta	Technical Helper	31.03.2022

5. Library

Library of IJIRA has a very good collection of books and Journals of Agro-Biology and Specially on Jute. The institute library performs and maintains its designated services and activities such as acquisitions of books and journals, classification and cataloguing of document and other documentation works. Library also provides the internet and reprography service to the readers.

a. Acquisition Status as on 31st March, 2022

Type	Addition during the year 2021-2022	Total Holding
Books	11	5067
Bound Journals Volumes	37	8792

b. Online Databases Subscribed

Name of the Database	Details
EBSCO – “Textile Technology Complete”	This database contains more than 490 periodical titles and over 905000 records drawn from sources such as books, conferences, theses, technical reports and trade literature. It includes nearly 75 full-text journals and over 50 books and monographs.
EBSCO – “World Textiles”	This database covers more than four decades of information relating to developments and innovations in the textile industry. It consists of records from 1970 onwards from different scientific, trade, technical, and economic publications related to textiles. It is also a source of American, British and European patents and International Standards information. It delivers a uniquely comprehensive source of information for anyone involved in textiles.

c. Print Journals / Periodicals Subscribed / Received during the year 2021-2022

Journals / Periodicals (Subscribed)	11
Journals / Periodicals (Gratis)	10

External users from other organizations as well as individual research workers consulted IJIRA-Library for their information needs.

Library automation software LIBSYS4 (LSEase/E Rel.6.3) has been installed at IJIRA-Library. Database creation and data entry work is in progress. Once data entry is completed, library databases can be searched through internet using Web OPAC.

SECTION VI

Annexure

IJIRA COUNCIL OF MANAGEMENT AND ITS COMMITTEES 2021-22

LIST OF COUNCIL MEMBERS 2021-22

Sl. No.	Name and Address	Sl. No.	Name and Address
Members representing Industry			
01.	Shri Arun Kumar Lohia Chairman, IJIRA Managing Director Alliance Mills (Lessees) Ltd. 18, Netaji Subhas Road Kolkata-700001	06.	Shri Asish Kankaria Director Bally Jute Co. Ltd. 5, Middleton Street (Ground Floor), Kolkata-700071
02.	Shri Raghavendra Gupta Chairman, I.J.M.A. Royal Exchange 6, Netaji Subhas Road Kolkata 700001	07.	Shri Srivatsa Kajaria Director Murlidhar Ratanlal Exports Ltd. Unit: India Jute Mill 15B, Hemanta Basu Sarani Kolkata-700001
03.	Shri Jagdish Sarda Vice-Chairman, IJIRA Advisor The Empire Jute Co. Ltd 21A, Shakespeare Sarani, 2 nd Floor Kolkata-700017	08.	Shri Sanjay Hada Managing Director Reliance Jute Mills(International) Ltd VNSS Business Centre Ideal Plaza, South Block 11/1, Sarat Bose Road (4 th Floor) Kolkata-700020
04.	Shri D.C. Baheti, Managing Director Gloster Ltd., 21, Strand Road Kolkata – 700 001	09.	Shri Utkarsh Kanoria Director Cheviot Co. Ltd. 9 th Floor, 24, Park Street, Magma House Kolkata - 700016
05.	Shri Varun Maskara Senior Executive The Mahabir Jute Mills Ltd. 142A, Betiahata Near Hanuman Mandir Gorakhpur-273209, (U.P)	10.	Shri Ghisaram Verma Senior Joint President Birla Corporation Ltd Unit: Birla Jute Mills Birla Building 9/1, R.N. Mukherjee Road Kolkata-700 001

Sl. No.	Name and Address	Sl. No.	Name and Address
11.	Special Invitee Shri Raghav Kajaria Director Murlidhar Ratanlal Exports Ltd. Unit: Gondalpara Jute Mill 15B, Hemanta Basu Sarani Kolkata-700001		
12.	Nominee of Ministry of Science and Technology Dr. A. Mukhopadhyay Advisor & Head (INSPIRE & FIST Programme) Gov of India, Ministry of Science and Technology Dept. of Science and Technology Technology Bhavan, New Mehrauli Road, New Delhi-110016	13.	Nominee of CSIR Prof. Samit Chattopadhyay Director CSIR-Indian Institute of Chemical Biology 4, Raja S. C. Mullick Road, Kolkata-700 032
14.	Prof. Siddhartha Roy Director Bose Institute Centenary Building P-1/12, CIT Scheme VII-M Kolkata-700054		
Members Nominated by IJIRA Council			
15.	Dr. Pradip Das Principal Scientist and In-Charge AINP on Jute and Allied Fibres Regional Agricultural Research Station, Assam Agriculture University Sillongani, Nagaon- 782 002 Assam (representative of Vice Chancellor Assam Agricultural University, Jorhat)	16.	Ex-Officio Member Dr A.K. Sharma Director IJIRA 17, Taratala Road, Kolkata-700088

Members of Research Advisory Committee (RAC)

1. Shri Raghvendra Gupta, Chairman, IJMA
2. Shri A.K. Lohia, Chairman, IJIRA, Managing Director, Alliance Mills (Lessess) Ltd.
3. Shri Jagdish Sarada, Vice-Chairman, IJIRA, Advisor, The Empire Jute Co. Ltd.
4. Shri D.C. Baheti, Managing Director, Gloster Ltd.
5. Dr. A.K. Sharma, Director, IJIRA – Convener

Finance and Executive Committee (FEC)

1. Director of the Association, Ex-Officio, Chairman
2. Chairman, IJIRA
3. Two members as nominated by the Council.
 - Chairman, IJMA
 - Vice-Chairman, IJIRA
4. Finance Manager / Chief Accounts Officer (CAO), IJIRA

ANNEXURE – II**Representation of IJIRA in outside committees (BIS)**

Sl. No	Sectional Committee	Representative of IJIRA
01.	TXDC Main Committee	Dr U. S. Sarma, Director IJIRA Dr S. K. Chakrabarti (Alternate)
02.	Composition of Physical Methods of Test Sectional Committee – TXD 01	Smt. Soumita Chowdhury Shri D. P. Gon (Alternate)
03.	Composition of Jute and Jute Products Sectional Committee – TXD 03	Shri Palash Paul Shri Partha Sanyal (Alternate)
04	Composition of Textile Sizing, Finishing Materials and Dyestuffs Sectional Committee TXD - 07	Dr. S. K. Chakrabarti Dr. Sandip Bose (Alternate)
05.	Composition of Cordage Sectional Committee, TXD 09	Shri Palash Paul Shri Partha Sanyal (Alternate)
06	Composition of Geotextiles and Industrial Fabrics Sectional Committee – TXD 30	Shri Palash Paul Dr. Mahuya Ghosh (Alternate)
07	Industrial Fabric Sectional Committee – TXD 33	Shri D.P.Gon Shri Partha Sanyal (Alternate)
08.	Technical Textile for Agro-tech Section Committee, TX-35	Dr. Mahuya Ghosh Shri D.P.Gon (Alternate)

Meetings

Annual General Meeting (AGM)

55th Annual General Meeting was held at IJIRA on 30th December, 2021

Council Meetings

The Council of Management of IJIRA held following meetings during the year 2021-22

- (a) 213th Council Meeting was held on 29th September, 2021
- (b) 214th Council Meeting was held on 30th December, 2021
- (c) 215th Council Meeting was held on 8th March, 2022

Finance and Executive Committee (FEC) Meetings

Meetings of the Finance and Executive Committee of IJIRA during the year 2021-22

- (a) 122nd FEC meeting was held on 29th September, 2021
- (b) 123rd FEC meeting was held on 30th December, 2021
- (c) 124th FEC meeting was held on 8th March, 2022

BIS Meetings

- Ms. Soumita Chowdhury attended 22nd Meeting of Physical Methods of Test- Sectional Committee, TXD 01 committee through video conferencing on 09th July, 2021
- Shri Palash Paul and Shri Partha Sanyal attended 35th Meeting of Jute and Jute Products Sectional Committee, TXD 03 on 26th July 2021 through Video Conferencing

Other Meetings

- Dr. A.K.Sharma, Director, IJIRA attended 24th Meeting of the Textile Division Council, TXDC held on 19th April, 2021.
- Attended the Second Meeting of the Expert Committee on Jute (ECJ) held on 27th April, 2021.
- Attended 24th Board Meeting of National Jute Board held on 28th June, 2021 through Video conferencing.
- Meeting with Paracoat Products Ltd. Held on 1st July, 2021, through virtual mode.
- Attended meeting with TRAs held on 16th September, 2021 by the Ministry of Textiles

- The Director, IJIRA attended meeting of the committee to present Research Proposal on Technical Textiles held on 30th October, 2021, hosted by the Ministry of Textiles through virtual mode.
- 4th Meeting of the Technical Textiles for Sportech Applications, TXD-37 held on 14th December, 2021 was attended by the Director through virtual mode.
- The Director, IJIRA attended 14th PAMC meeting under scheme for R&D for textile industry including jute for a period of five years from 201-15 to 2019-20 for component I&II held on 21.01.2022, virtually.
- Attended 25th Board Meeting of National Jute Board held on 7th February, 2022 through Video conferencing.
- The Director, IJIRA attended NTTM Meeting through video conferencing held on 21st February, 2022 on the selected project entitled “Technology Development for preparation of yarn from jute as alternative to flax and hemp yarn for application as Technical Textiles for fibre reinforced composites, packaging, automotive, aerospace and other high performance textile applications”.
- Attended 14th PAMC meeting held on 28th March, 2022 under the chairpersonship of Textile Commissioner.
- The Technology Division of CII organised the 1st Edition of Conference on Materials Science and Applications with the theme “Materials Engineering with Sustainable Value” on 30th April 2021 which was attended by Shri Goutam Prasad
- Shri Partha Sanyal attended the webinar entitled “Indian market for durable nonwovens – market and technologies” by Andritiz Nonwoven India on 30th June 2021 and “Indian market for hygiene nonwovens – market and technologies” on 1st July 2021
- 19th Meeting of the Sub-Committee of IJMA on New Bag Development was attended by Shri Palash Paul and Shri Partha Sanyal on 19 July 2021
- Director attended Technical Committee Meeting of Capital Subsidy on Acquisition of Plant & Machinery (CSAPM) on 10th August 2021

Organization/Participation in Conference

- Dr. A.K.Sharma attended Workshop on enhancement of Productivity and Quality of Raw Jute held on 23rd June, 2021 on hybrid mode.
- Institute – Industry interface at ICAR-NINFET held on 30th September, 2021.

Paper Published

Chakrabarti, S. K., Saha, S. G., Roy, I., Deka, A. C., Bose, S., Chakraborty, R., ... & Sharma, U. (2021). Dry Retting of Jute under Limited Aqueous System Vs Water Based Conventional Retting of Jute: A Comparative Study. *Journal of Natural Fibers*, 1-11.

Patent (s)

1. A Provisional Indian Patent Appl. No. 202231001838 dated – 12.01.2022 entitled as “New Roller Drafting System for Drawing of Jute Sliver” has been filed. Shri Partha Sanyal, Shri Debi Prasad Gon, Shri Palash Paul, Shri Gopal Mukhopadhyay, Shri Dharmendra Kumar Singh and Shri Buddhadeb Das.
2. Patent filed on “Jute – Cotton based Eco- Friendly protective cover (face cover) for nose and mouth” on 06.07.2021, Ref no. PP- 3144(DSR-AS)/ IJIRA. Soumita Chowdhury, Palash Paul, Partha sanyal, S.K. Chakrabarti., Dr. U.S. Sarma
3. Pedal Brake System for Individual Flyers of Jute Spinning Machine, Patent Application No. 202131047685 dated 20.10.2021

SECTION VII

Financial Report (2021-22)

"THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION "
17, Taratala Road, Kolkata-700088

AUDITED ACCOUNTS
FOR THE YEAR ENDED 31ST MARCH, 2022

M/S. M.R.SEN & CO
CHARTERED ACCOUNTANTS
8/3 Bhawani Dutta Lane ,
Raja Guest House, Annexe Building
First Floor , Room No.1&2
Kolkata - 700 073,
Phone # 033-4007-4771
E-Mail : sen_manoranjan18@yahoo.com



M. R. SEN & CO.
CHARTERED ACCOUNTANTS

Address: 8/3 Bhawani Dutta Lane , Kolkata – 700 073

Phone: 4007 4771/9831095038

E-mail:sen_manoranjan18@yahoo.com

AUDITORS' REPORT

We have examined the annexed Balance Sheet as at 31st March, 2022 and also attached Income & Expenditure Account for the year ended on that date and Receipts & Payments Account for the period from 1st day of April, 2021 to 31st March, 2022 **THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION at 17, Taratala Road, Kolkata-700088** which are in agreement with the Books of Accounts as maintained by the said Association.

1. 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.
2. In our opinion proper books of account as required have been kept by the above named Trust as for as appears from our examination of the books of accounts.
3. The Balance Sheet, the Income & Expenditure Account and Receipt & Payments Account as referred to in this Report are in agreement with the Books of Account.
4. In our opinion and to the best of our information and according to the explanations given to us, the said Balance Sheet and the Income & Expenditure Account, give the information required by the West Bengal Society Registration Act, 1961 in the manner so required and give a true and fair.

View:

- a) In the case of Balance Sheet, of the State of Affairs of the as at 31st March, 2022 and
- b) In the case of Income & Expenditure Accounts, the Excess of Expenditure over Income for the year ended on that date.

For **M. R. Sen & Co.**
Chartered Accountants
Firm Registration No 307054E

CA JAYANTA KUMAR KUNDU
Partner

Membership No. 053199

Place: Kolkata

UDIN: **22053199ARKKQW2229**

Date: 08.09.2022



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

SCHEDULE 13- SIGNIFICANT ACCOUNTING POLICIES

For the year ended 31st March, 2022

1. Basis of Preparation of Financial Statements (Balance Sheet and Income & expenditure Accounts for the year ended 31st March 2022)

The Financial Statements are prepared on accrual basis under the historical cost convention, except for certain Fixed Assets which are carried at revalued amounts. The financial statements are presented in Indian Rupees rounded off to the nearest rupees.

2. **Use of Estimates :**

The preparation of financial statements in conformity with the existing rules and regulations requires judgments, estimates and assumptions to be made that affect the reported amount of assets and liabilities, disclosure of contingent liabilities on the date of the financial statements and the reported amount of revenues and expenses during the reporting period. Difference between the actual results and estimates are recognized in the period in which the results are known / materialized.

3. **Property, Plant and Equipment :
Tangible Assets**

Tangible Assets are stated at cost net of recoverable taxes, trade discounts and rebates and include amounts added on revaluation, less accumulated depreciation and impairment loss, if any. The cost of Tangible Assets comprises its purchase price, borrowing cost and any cost directly attributable to bringing the asset to its working condition for its intended use.

4. **Depreciation:**

Depreciation is provided on written down value method at the rates specified in the Income Tax Act, 1961 and the rules framed there under. Depreciation on assets acquired through grant-in-aid is charged to Capital Reserve. Depreciation on assets acquired through association's own fund is charged to Income and Expenditure Account. Depreciation on assets acquired through project fund is not accounted for.

5. **Investments:**

Investments classified as "long term" are carried at cost. Provision for decline, other than temporary, is made in carrying cost of such investments. Investments classified as "current" are carried at lower of cost and fair market value. Provision for shortfall on the value of such investments is made for each investment considered individually and not on a global basis. Cost includes acquisition expenses like brokerage, transfer stamps.

6. **Inventories :**

Items of inventories are measured at lower of cost and net realizable value after providing for obsolescence, if any. Cost of inventories comprises of cost of purchase, cost of conversion and other costs including manufacturing overheads incurred in bringing them to their respective present location and condition.

Cost of raw materials, process chemicals, stores and spares, packing materials, trading and other products are determined on weighted average basis.



7. Income Recognition :

i) Income is recognized only when risks and rewards incidental to ownership are transferred to the customer, it can be reliably measured and it is reasonable to expect ultimate collection. Revenue from operations includes sale of goods, services, service tax, and excise duty adjusted for discounts (net). Dividend income is recognized when the right to receive payment is established. Interest income is recognized on a time proportion basis taking into account the amount outstanding and the interest rate applicable. Interest on Savings Bank accounts are accounted for on cash basis, i.e., as and when it is credited to bank account. Interests earned from Fixed Deposits/Term Deposits are accounted for on accrual basis in line with 26As as per Income Tax Portal.

(ii) Income from Subscription from Member and Admission Fee:

Income from Membership is recognized when the membership is due and bills are raised as and when payment is received from the member mills for the membership fees to that effect.

(iii) Certification Fee, Testing Charges etc.

Incomes from Certification Fee, Testing charges etc., are accounted for on mercantile basis.

(iv) Grants from Government of India (Plan)

The grant of the capital nature is accounted for by showing fixed assets at gross amount and corresponding credit given to Capital Reserve Account.

8. TERMINAL BENEFITS

Liability for Gratuity and Liability for Leave Encashment are provided in the accounts based on the actuaries report.

9. RESEARCH AND DEVELOPMENT EXPENDITURE

Revenue Expenditure on Research and Development are charged to Income and Expenditure Account in the year in which these are incurred. Capital Expenditure is considered as addition to fixed assets.

10. GOVERNMENT GRANT

a. Revenue:

The total Grant-in-Aid as sanctioned for Non-plan recurring expenditure is recognized as income and is credited to the Income and Expenditure Account.

b. Capital:

The grant of the capital nature is accounted for by showing fixed assets at gross value and corresponding credit given to Capital Reserve Account. The Depreciation/amortization etc. of such assets are adjusted with Capital Reserve



11. EARMARKED/ENDOWMENT FUNDS:

Amount received as grant or assistance for specific purposes showing as liability in the Balance Sheet as 'Earmarked/Endowment funds' and remaining to be expended/utilized for the specific purpose for which these are intended, are disclosed under this head and are subject to comply with certain terms and conditions in the respective agreements.

Provision made for incurring the residual work of the projects have been kept for the respective projects account by charging the estimated amount to be incurred in future such as cost of trial run at the mills and the contingencies etc. after getting the due fund from the project sanctioning authority i.e. MoT/Industry/NJB and to be squared up the provision made.

12. APPORTIONMENT OF CERTAIN EXPENSES

Expenses namely Energy Cost Account, Water Charges Account, and Postage, Telephone & Communication charges, Maintenance of Hardware & IT (Research) Account have been apportioned between Establishment Expenses & other Administrative Expenses AND Research & Development Expenses in the ratio of 30:70, 30:70 & 50:50 respectively as mentioned in the schedule forming part of financial statement. Accordingly, previous year's figures have been regrouped/rearranged in respect of above accounts for the purpose of comparison.

13. GENERAL RESERVE

Surplus/deficit of income & expenditure account is transferred to General Reserve.

14. FORMAT OF ANNUAL ACCOUNTS

The accounts of the association has been prepared in the draft format for submission of annual accounts recommended by Government of India, Ministry of Textiles vide their office memorandum No. CCA/COM&TEX/2005/95 dated 22/07/2005.

15. CORPUS FUND

Corpus Fund includes: Admission Fee of the Members.

16. GST

GST is accounted on the Basis of both, payments made in respect of goods cleared / services provided and provisions made for goods lying in bonded warehouses.

17. Employee Benefits: Short Term Employee Benefits

The undiscounted amount of short term employee benefits expected to be paid in exchange for the services rendered by employees are recognized as an expense during the period when the employees render the services.



INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

SCHEDULE 14 - CONTINGENT LIABILITIES & NOTES ON ACCOUNTS

1. CONTINGENT LIABILITIES

(i) Claims against the association not acknowledged as debt is Rs.10,36,90,716.40 as per order No.36 dated 18th March 2013, proceedings No.1051,1051/R, 1051/D of 2010 issued by the Estate Officer, Kolkata Port Trust.

(ii) Kolkata Port Trust (KoPT) raised a claim of Rs. **24,16,53,036.04 as total dues on 31/03/2017** including Rs.14,25,36,024.80 as outstanding principle dues as on 31/07/2017 and **Rs.9,91,17,011.24** as outstanding interest as on 31/03/2017, vide letter Ref. No. Lnd 4083/X/17/1607 dated 13 June 2017.

(iii) Kolkata Port Trust (KoPT) has claimed Rs. **Rs.61,22,27,413/-** as outstanding dues of Rent and interest thereon, in their Affidavit before the Hon'ble Additional District Judge 7th Court Alipore, South 24 Parganas, but as per their bills in the Month of March 2022, they have shown a sum of Rs.

Rs.34,89,90,252/- towards total outstanding dues lying on account of rent and interest thereon. IJIRA has raised an objection before the Court and the matter is sub-judice. As per Court order No.50 dated 10/03/2022, IJIRA has been paying of Rs.6,14,667/- per month as ad-hoc rent since March 2022, based on the interim order.

2. LEAVE ENCASHMENT

Liability on account of leave encashment as at 31/03/2022 has been determined by Omni Consultant Consortium, actuary, is Rs.74,44,359.00

3. GRATUITY

Liability on account of Gratuity as at 31/03/2022 payable to employees on retirement has been determined by Omni Consultant Consortium, actuary is Rs. 1,29,11,272.00

4. COMPARATIVES

Previous year's figures have been rearranged and regrouped wherever necessary.



**THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
BALANCE SHEET AS AT 31ST MARCH, 2022**

AMOUNT IN RUPEES

	SCHEDULE	AS AT 31ST MARCH, 2022 AMOUNT	AS AT 31ST MARCH, 2021 AMOUNT
<u>CORPUS FUND AND LIABILITIES</u>			
CORPUS FUND	1	22,461,030	22,461,030
RESERVES AND SURPLUS	2	103,288,218	111,784,194
EARMARKED/ENDOWMENT FUND	3	(39,285,239)	(35,486,564)
CURRENT LIABILITIES AND PROVISIONS	4	45,846,166	40,641,943
TOTAL		132,310,175	139,400,603
<u>ASSETS</u>			
FIXED ASSETS	5	7,413,316	8,866,642
ADVANCE TO PARTIES		817,448	475,000
CURRENT ASSETS, LOANS AND ADVANCES	6	124,079,411	130,058,961
TOTAL		132,310,175	139,400,603

In terms of our report of even date

For M. R. Sen & Co.
Chartered Accountants
FRN - 0307054E



Anil Sharma

Director
IJIRA

CA Jayanta Kumar Kundu
Partner
Membership No. 053199
UDIN:22053199ARKKQW2229
Place : Kolkata
Dated :08.09.2022

Sudhir

Chairman
IJIRA Council of Management

THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

AMOUNT IN RUPEES

	SCHEDULE	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021
INCOME					
INCOME FROM SALES/SERVICES	7		31,955,966		41,944,472
GRANT-IN-AID	-		16,500,000		15,000,000
SUBSCRIPTION	8		5,391,440		4,211,340
INTEREST EARNED	9		4,784,504		6,371,491
OTHER INCOME	10		730,661		56,748
PRIOR PERIOD INCOME	-				
TOTAL (A)			59,362,571		67,584,051
EXPENDITURE					
ESTABLISHMENT EXPENSES & OTHER ADMINISTRATIVE EXPENSES	11		16,910,498		15,704,463
RESEARCH AND DEVELOPMENT EXPENSES	12		48,200,776		48,728,127
PRIOR PERIOD EXPENDITURE/ADJUSTMENT	-		1,228		9,245,030
INCOME TAX RECEIVABLE WRITTEN OFF DEPRECIATION		1,499,444	1,246,600	2,044,225	
Less: Transferred to Capital Reserve	-	53,680	1,445,764	75,125	1,969,100
TOTAL (B)			67,804,867		75,646,720
SURPLUS/(DEFICIT) TRANSFERRED TO GENERAL RESERVE(A -B)			(8,442,296)		(8,062,669)

SIGNIFICANT ACCOUNTING POLICIES 13
CONTINGENT LIABILITIES AND NOTES ON ACCOUNTS 14

In terms of our report of even date

For M. R. Sen & Co.
Chartered Accountants
FRN - 0307054E



CA Jayanta Kumar Kundu
Partner
Membership No. 053199
UDIN:22053199ARKKQW2229
Place : Kolkata
Dated :08.09.2022

Anil Sharma

Director
IJIRA

Sudhakar

Chairman
IJIRA Council of Management

THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2022

AMOUNT IN RUPEES

	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2021	AS AT 31ST MARCH, 2021
<u>SCHEDULE - 1</u>				
<u>CORPUS FUND</u>				
Balance as at the beginning of the year	22,461,030			22,411,030
Add: Admission Fees transferred to Corpus Fund	-			50,000
TOTAL		22,461,030		22,461,030

SCHEDULE - 2

RESERVES AND SURPLUS

1. CAPITAL RESERVE

as per last Account	317,565		392,690	
Less: Depreciation on Fixed Assets	53,680	263,885	75,125	317,565

2. GENERAL RESERVE

As per last Account	111,466,629		119,529,298	
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Transferred from Income and Expenditure account	-8,442,296	103,024,333	-8,062,669	111,466,629
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TOTAL		103,288,218		111,784,194
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THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2022
SCHEDULE-3

Earmarked/Endowment Funds

Sl No.	Particulars of Projects	FUND						UTILISATION					REPAYMENT	NET BALANCE	
		Fund Received as per last account Amount (a)	Donation/Grants received during the year (b)(i)	Income from investments made on account of Funds (b)(ii)	Other Additions/Adjustments/Received as Industry Contribution (b)(iii)	Additions to the fund during the year (b)(i)+(b)(ii)+(b)(iii) (c)	Total Including Additions (a)+(c) (d)	Total Expenditure As per last account (e)(i)	Expenditure during the year- Capital Expenditure (e)(ii)	Expenditure during the year- Revenue Expenditure (e)(iii)	Total Expenditure during the year (e)(i)+(e)(ii)+(e)(iii) (e)	Up to date Total Expenditure (c)(i)+(e) (f)	Refund/Adjustment (g)	Net balance of the year end (h)	
1	Powerloom Service Centre (GHT) GOI														
	Current Year	27,996,383	1,200,000	0	0	1,200,000	29,196,383	0	3,055,887	3,055,887	29,815,873	4,924,633	-5,544,123		
	Previous Year	26,796,383	1,200,000			1,200,000	27,996,383	0	4,234,118	4,234,118	26,759,986	4,924,633	-3,688,236		
2	powerloom Service Centre (GHT) Others														
	Current Year	1,400,250	0		23	23	1,400,273	0	23	23	1,400,273		0		
	Previous Year	1,400,250	0		0	0	1,400,250	0	0	0	1,400,273		-23		
3	DEVELOPMENT & APPOF POTENTIALITY IMP. JUTE GEOTEX														
	Current Year	516,541	0		0	0	516,541	0	0	0	555,118		-38,577		
	Previous Year	516,541	0		0	0	516,541	0	0	0	555,118		-38,577		
4	DEVELOPMENT OF PORTABLE JUTE FIBRE STRENGTH TESTER														
	Current Year	1,885,000	0		0	0	1,885,000	0	0	0	1,931,674		-46,674		
	Previous Year	1,885,000	0		0	0	1,885,000	0	0	0	1,931,674		-46,674		
5	INABL ACCREDITATION														
	Current Year	2,072,800	0		0	0	2,072,800	0	209,007	209,007	2,072,800		0		
	Previous Year	2,072,800	0		0	0	2,072,800	0	0	0	2,072,799		1		
6	STUDIES ON THE RELATIONSHIP BETWEEN AOS AND WATER PERMIBILITY														
	Current Year	100,000	0		0	0	100,000	0	0	0	399,685		-299,685		
	Previous Year	100,000	0		0	0	100,000	0	0	0	399,685		-299,685		
7	TECHNOCOMMERCIAL FEASIBILITY STUDY RBO														
	Current Year	536,000			0	0	536,000				1,151,589		-615,589		
	Previous Year	536,000			0	0	536,000				1,151,589		-615,589		
8	TRANSMIGRATION OF MINERAL OIL HYDROCARBONS														
	Current Year	2,137,500	550,000			550,000	2,687,500				2,850,000		-162,500		
	Previous Year	2,137,500	0			0	2,137,500				2,850,000		-712,500		
9	INTEGRATED SKILL DEVELOPMENT SCHEME														
	Current Year	14,951,281	0		0	0	14,951,281				13,907,859		1,043,422		
	Previous Year	14,951,281	0		0	0	14,951,281				13,907,859		1,043,422		
10	DYEING OF SILK AND ART SILK														
	Current Year	2,910,000	0		0	0	2,910,000	0	0	0	4,500,000		-1,590,000		
	Previous Year	2,910,000	0		0	0	2,910,000	0	0	0	4,500,000		-1,590,000		
11	INTEGRATED PROJECT ON ENZYME BASED JUTE RETTING														
	Current Year	3,883,000	0		0	0	3,883,000	0	0	0	5,285,797		-1,590,000		
	Previous Year	3,883,000	0		0	0	3,883,000	0	0	0	5,285,797		-1,590,000		



**THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2021
SCHEDULE-3**

Earmarked/Endowment Funds

Sl No.	Particulars of Projects	FUND					UTILISATION				REPAYMENT	NET BALANCE		
		Fund Received as per last account Amount	Donation/Grants received during the year	Income from Investments made on account of Funds	Other Additions/Adjustments/Received as Industry Contribution	Additions to the fund during the year (b)(i)+(b)(ii)+(b)(iii)	Total Including Additions (a)+(d)	Total Expenditure during the year Capital Expenditure	Expenditure during the year- Revenue Expenditure	Total Expenditure during the year (c)(i)+(c)(ii)+(c)(iii)			Up to date Total Expenditure (c)(i)+(e)	Refund/Adjustment
		(a)	(b)(i)	(b)(ii)	(b)(iii)	(c)	(d)	(c)(i)	(c)(ii)	(c)(iii)	(e)	(f)	(g)	(h)
12	BIO CHEMICAL SOFTENING OF HARD ROOT CUTTINGS Current Year Previous Year	21,73,772 21,35,944	0 0	0 0	37,828 37,828	0 21,73,772 21,73,772	0 0	0 0	0 0	0 0	0 0	34,03,727 34,03,727	0 0	-12,29,955 -12,29,955
13	DESIGN AND DEV. OF 50 KG CAPACITY EFFECTIVE WITH BAGS Current Year Previous Year	24,69,542 24,11,515	0 0	0 0	58,027 58,027	24,69,542 24,69,542	0 0	0 0	0 0	18,18,719 18,18,719	0 0	41,09,549 22,90,830	0 0	-16,40,007 1,78,712
14	DESIGN AND DEV. CONT. DAMPING AND CALENDERING MACHINE Current Year Previous Year	67,37,737 51,96,462	0 0	0 0	3,43,508 15,41,275	70,81,245 67,37,737	0 0	71,66,616 0	0 0	3,83,548 3,83,548	0 0	1,05,63,370 33,96,754	0 0	-34,82,125 33,40,983
15	DEV. OF HIGH SPEED ROLLER DRAFTING SYSTEM Current Year Previous Year	30,08,881 29,06,140	0 0	0 0	1,02,741 1,02,741	30,08,881 30,08,881	0 0	0 0	0 0	8,39,519 1,00,477	0 0	34,00,000 25,60,481	0 0	-3,91,119 4,48,400
16	DEV. OF JUTE BASED TEXTILE PREFORMS AND Current Year Previous Year	36,70,700 36,70,700	0 0	0 0	0 0	36,70,700 36,70,700	0 0	0 0	0 0	4,57,872 4,57,872	0 0	32,77,063 32,77,063	0 0	3,93,637 3,93,637
17	DEV. OF PLA LAMINATED JUTE AS BIO COMP PACK MATERIALS Current Year Previous Year	33,94,342 30,15,179	0 0	0 0	3,79,163 3,79,163	33,94,342 33,94,342	0 0	0 0	0 0	24,37,458 6,55,387	24,37,458 6,55,387	57,35,000 32,97,542	0 0	-23,40,658 96,800
18	FASTER RETTING OF JUTE PLANT Current Year Previous Year	52,76,683 51,15,215	0 0	0 0	1,61,468 1,61,468	52,76,683 52,76,683	0 0	0 0	0 0	0 0	0 0	83,20,733 83,20,733	0 0	-30,44,050 -30,44,050
19	FEASIBILITY STUDY OF OIL FREE PROC OF JUTE FIBRE Current Year Previous Year	15,48,000 15,48,000	0 0	0 0	0 0	15,48,000 15,48,000	0 0	0 0	0 0	0 0	0 0	38,70,000 38,70,000	0 0	-23,22,000 -23,22,000
20	JUTE BASED AIR FILTER MEDIA HAVANTT MICROBIAL Current Year Previous Year	18,20,000 18,20,000	0 0	0 0	0 0	18,20,000 18,20,000	0 0	0 0	0 0	247 230	247 230	16,83,195 16,82,948	0 0	1,36,805 1,37,052
21	SETTING-UP OF FCI DIGITAL PRINTING Current Year Previous Year	33,11,000 33,11,000	0 0	0 0	0 0	33,11,000 33,11,000	0 0	0 0	0 0	0 0	0 0	54,77,567 54,77,567	0 0	-21,66,567 -21,66,567
22	UTILIZATION OF JUTE STICKS AND JUTE WASTE FOR Current Year Previous Year	36,43,150 35,78,738	0 0	0 0	3,05,667 64,412	39,48,817 36,43,150	0 0	0 0	0 0	10,11,482 (5,54,710)	10,11,482 (7,91,485)	51,59,997 41,48,515	0 0	-12,11,180 -5,05,365



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2021
SCHEDULE-3

AMOUNT IN RUPEES

Earmarked/Endowment Funds

Sl No.	Particulars of Projects	FUND						UTILISATION				REPAYMENT	NET BALANCE
		Fund Received as per last account Amount	Donation/Grants received during the year	Income from Investments made on account of Funds	Other Additions/Adjustments/Received as industry Contribution	Additions to the fund during the year (b)(i)+(b)(ii)+(b)(iii)	Total Including Additions (a)+(c)	Total Expenditure during the year Capital Expenditure	Expenditure during the year- Revenue Expenditure	Total Expenditure during the year (c)(i)+(c)(ii)	Up to date Total Expenditure (c)(i)+(e)	Refund/Adjustment	Net balance of the year-end
		(a)	(b)(i)	(b)(ii)	(b)(iii)	(c)	(d)	(c)(i)	(c)(ii)	(e)	(f)	(g)	(h)
23	PROJECT WITH SHELL INDIA												
	Current Year	26,97,166	0		0	0	26,97,166			0	26,97,166		
	Previous Year	17,06,806	9,90,360		9,90,360	9,90,360	26,97,166		26,014	26,014	26,97,166		
24	DEV. OF STANDARD FOR USE OF JUTE GEOTEXTILE (JGT) RUR												
	Current Year	1,11,79,638	0		0	0	1,11,79,638			9,35,377	1,54,65,894		-42,86,256
	Previous Year	1,08,21,712	0		3,57,926	3,57,926	1,11,79,638		5,26,046	5,26,046	1,45,30,517		-33,50,879
25	JUTE THERMOPLASTIC COMPOSITE FOR GREEN PRODUCT												
	Current Year	70,15,145	0		0	0	70,15,145			19,48,643	96,35,566		-26,20,421
	Previous Year	67,87,303	0		2,27,842	2,27,842	70,15,145		5,992	5,992	76,86,923		-6,71,778
26	MASS SCALE PRODUCTION OF MICROBIAL CONSORTIUM												
	Current Year		0		0	0				0	23,48,948		-23,48,948
	Previous Year		0		0	0			0	0	23,48,948		-23,48,948
27	PRO DEV AUTOMATION SANITARY NAPKINS												
	Current Year	29,75,000	5,25,000		5,25,000	5,25,000	35,00,000			0	46,98,890		-11,98,890
	Previous Year	29,75,000	0		0	0	29,75,000		0	0	46,98,890		-17,23,890
28	PROMOTING THE USAGE OF GEOTEXTILES IN NER												
	Current Year	33,00,000	0		0	0	33,00,000			0	66,06,815		-33,06,815
	Previous Year	33,00,000	0		0	0	33,00,000		15,06,552	15,06,552	66,06,815		-33,06,815
29	TEV STUDIES FOR GOVT. OF ARUNACHAL PRADESH												
	Current Year		0		0	0	0			0	20,014		-20,014
	Previous Year		0		0	0	0		20,014	20,014	20,014		-20,014
30	NRDC PROJECT												
	Current Year		4,80,000		4,80,000	4,80,000	4,80,000		0	0	0		4,80,000
	Previous Year		0		0	0	0		0	0	0		4,80,000
31	TOSA GRADE FOR BIMLI FIBRE												
	Current Year		0		0	0	0		0	0	30,153		-30,153
	Previous Year		0		0	0	0		0	0	30,153		-30,153
	Current Year - Total	12,26,09,511	22,75,000	0	6,49,198	29,24,198	12,55,33,709		1,20,47,355	1,92,13,948	16,03,74,315	49,24,633	-3,92,85,239
	Previous Year - Total	11,74,88,469	26,70,360	0	29,30,682	56,01,042	12,30,89,511		75,70,547	74,50,297	14,11,60,366	49,24,633	-2,29,95,488



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31ST MARCH, 2022

AMOUNT IN RUPEES

	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2021	AS AT 31ST MARCH, 2021
SCHEDULE - 4				
<u>A. CURRENT LIABILITIES</u>				
1. Sundry Creditors				
a) For Goods			-	
b) Others	1,099,723	1,099,723	929,192	929,192
2. Security Deposit		171,158		171,158
3. Advance Received From Parties		25,787		234,366
<u>4. Others Current Liabilities</u>				
(a) Unpaid and Undischarged Liabilities	9,103,049		-	
(b) Earnest Deposit	160,100		179,100	
(c) Outstanding Liabilities	844,095		1,037,177	
(d) Provident Fund	315,570		662,389	
(e) Voluntary provident fund	178,712		320,690	
(f) Professional Tax	12,510	10,614,036	-	2,199,356
(d) Tax Deducted at Source				
On Contractor	10,482		4,688	
On salary	314,767		341,960	
On Professionals	64,789		8,438	
GST	667,514		1,747,457	
Professional tax	-	1,057,552	10,180	2,112,723
<u>B. PROVISIONS</u>				
1. Leave Encashment	7,444,359		7,840,819	
2. Gratuity	12,911,272		16,236,179	
3. Expenses For Project and Others	12,522,279	32,877,910	10,918,150	34,995,148
TOTAL		45,846,166		40,641,943



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF THE BALANCE SHEET AS AT 31ST MARCH, 2022
SCHEDULE - 5

FIXED ASSETS

FIXED ASSETS		GROSS BLOCK					DEPRECIATION					AMOUNT IN RUPEES	
		Cost/Valuation as at the beginning of the year	Additions during the year	Deductions during the year	Cost/Valuation at year end	As at the beginning of the year	During the year	On additions during the year	Depreciation for the year	On Deductions during the year	Total up to the year end	As at the current year end	As at the previous year end
1	LAND												
	a) Freehold	-	-	-	-	-	-	-	-	-	-	-	-
	b) Leasehold	-	-	-	-	-	-	-	-	-	-	-	-
2	BUILDINGS ON												
	a) Freehold Land	20,573,715	-	-	20,573,715	-	-	402,547	402,547	-	16,950,794	3,622,921	4,025,468
	b) Leasehold Land	1,644,684	-	-	1,644,684	-	-	28,057	28,057	-	1,111,605	533,079	561,136
	C) Ownership Flats/Premises												
3	PLANT MACHINERY & EQUIPMENT	19,357,093	-	-	19,357,093	-	-	27,357	27,357	-	19,202,069	155,024	182,381
4	SCIENTIFIC APPARATUS	14,060,963	-	-	14,060,963	-	-	583,304	583,304	-	13,186,007	874,956	1,458,260
5	FURNITURE & FIXTURES	3,500,344	-	-	3,500,344	-	-	57,616	57,616	-	2,981,797	518,547	576,164
6	OFFICE EQUIPMENTS	3,386,979	2,118	-	3,389,097	-	-	95,545	95,815	270	2,734,594	654,503	748,200
7	COMPUTERS	7,580,369	-	-	7,580,369	-	-	144,141	144,141	-	7,364,158	216,211	360,352
8	AIR CONDITIONING PLANT	2,767,094	-	-	2,767,094	-	-	23,692	23,692	-	2,632,839	134,255	157,947
9	TELEPHONE INSTALLATION	786,108	-	-	786,108	-	-	3,921	3,921	-	759,864	26,244	30,165
10	PATENTS	236,401	44,000	-	280,401	-	-	5,788	16,788	11,000	230,036	50,365	23,153
11	LIBRARY BOOKS	1,373,408	-	-	1,373,408	-	-	8,993	8,993	-	1,352,423	20,985	29,978
12	COMPUTER SOFTWARE	5,067,809	-	-	5,067,809	-	-	314	314	-	5,067,338	471	785
13	ELECTRICAL INSTALLATION	2,418,867	-	-	2,418,867	-	-	106,898	106,898	-	1,813,112	605,755	712,653
TOTAL OF CURRENT YEAR		82,753,834	46,118		82,799,952			11,270	1,499,444		75,386,636	7,413,316	8,866,642
PREVIOUS YEAR		82,527,632	226,202		82,753,834			15,751	2,044,225		73,887,192	8,866,642	10,684,665
CAPITAL WORK IN PROGRESS													
Note:													
Total Cost of Fixed Assets Acquired out of Grant-in-Aid (Net of Disposal/adjustment)													
Total Cost of Fixed Assets Acquired out of Association's own Fund (Net of Disposal/adjustment)													
Total													
WDV at the beginning of the year - after adjusting Rs.7/-													
Balance of Capital Reserve at the beginning of the year													
Apportionment of Depreciation													
Total depreciation													
Transferred to Capital Reserve													
Charged to Revenue													



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
SCHEDULES FORMING PART OF THE BALANCE SHEET AS AT 31ST MARCH, 2022
AMOUNT IN RUPEES

AS AT 31ST AS AT 31ST AS AT 31ST AS AT 31ST
MARCH, 2022 MARCH, 2022 MARCH, 2021 MARCH, 2021

SCHEDULE - 6

CURRENT ASSETS, LOANS AND ADVANCES

A. CURRENT ASSETS

1. Sundry Debtors

a) outstanding to the period exceeding six months

Considered Good	2,418,955	2,418,955	10,751,592	10,751,592
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2. Inventories of Stores & Spares		328,470		351,411
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3. Cash Balance in Hand (Including Cheques/Drafts and Imprest)		22,475		14,082
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4. Bank Balances

a) With Scheduled banks

In Current Account/Savings Accounts	10,240,174		7,121,986	
Fixed Deposit Accounts	99,845,320	110,085,494	94,219,292	101,341,278

b) With non-scheduled banks

c) Cheque in Hand				-
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TOTAL (A)		112,855,394		112,458,363
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B. LOANS, ADVANCES AND OTHER ASSETS

(Unsecured - Considered Good)

1. Advances and other amount recoverable

in cash or in kind or for value to be received

(a) Advances to staffs	147		276,927	
(b) Deposits with Others	5,070,524	5,070,524	5,070,523	5,070,523
(c) Festival Advances	2,500	2,500	168,000	168,000
(d) Pre Paid Expenses	-	-	-	-
(e) Income Tax Deducted at sources and GST	-	-	-	-
Input Credit	2,947,733	2,947,733	4,454,569	4,454,569
(f) Earnest Money Deposit	1,100,118	1,100,118	1,100,059	11,070,078

2. Accrued Interest on Fixed Deposit	2,102,995			6,530,520
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TOTAL (B)		11,224,017		17,600,598
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TOTAL (A) + (B)		124,079,411		130,058,961
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THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

AMOUNT IN RUPEES

	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2021	AS AT 31ST MARCH, 2021
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SCHEDULE - 7

INCOME FROM SALES/SERVICES

1) Income From Services-Others

BIOCHEMICAL SOLUTION	319000		1040000	
CERTIFICATION FEES PROCESS CAPABILITY	968760		773760	
CONSULTANCY CHARGES AND TRAINING FEES	2801836		515495	
FEES FOR NJB INCENTIVE SCHEME	1037702		487278	
INSPECTION CHARGES	24382854		33884140	
PROCESS AUDIT OF FGJP	144000		168000	
PROFESSIONAL FEES FOR DISASTER MANAGEMENT	0		0	
CALIBRATION CHARGES	375738		229249	
TECHNOLOGY TRANSFER FEES	0		375000	
MISC. RECEIPTS/MAINTENANCE AUDIT	114000		255758	
TESTING CHARGES	1409090		955753	
TRAINING PROGRAMME AT PSC GUWAHATI	162000		664093	
ANNUAL MAINTENANCE CHARGES AT PSC	2000		18000	
CONSIDERAION FROM JRMB	8836		138777	
VENDOR CERTIFICATION FEES	230150		0	
MASK PROCESSING CHARGES	0	3,19,55,966	5699	3,95,11,002

2) Contribution Towards Sponsored Projects

Project with Shell	-		0	
Dev High Speed Roller Drafting Mot-07	-		12604	
Design Dev 50 kg Bags Mot-01	-		451100	
Design Dev Contin Damping Calendering Mot-12	-		710256	
Powerloom Service Centre	-			
Promo Usage	-			
Jute Thermoplastic Components	-		251000	
Biochemical softening hardroot	-		562350	
Jute Thermoplastic Greenproduct	-	-	446160	24,33,470

TOTAL		<u>3,19,55,966</u>		<u>4,19,44,472</u>
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SCHEDULE - 8

Fees / Subscription

Annual Subscription		<u>53,91,440</u>		<u>42,11,340</u>
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THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

AMOUNT IN RUPEES

	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2021	AS AT 31ST MARCH, 2021
SCHEDULE - 9				
<u>INTEREST EARNED</u>				
1) On Fixed Deposit				
a) With scheduled Banks on Fixed Deposit (term Deposit) Special Reserve Account	1,511,284		1,906,083	
	<u>2,992,001</u>	4,503,285	<u>4,240,755</u>	6,146,838
b) Others				-
2) On Savings Account				
With scheduled Banks	<u>179,930</u>	179,930	<u>142,868</u>	142,868
3) On Security Deposit (CESC LTD.)				
	<u>101,289</u>	101,289	<u>81,785</u>	81,785
TOTAL		<u><u>4,784,504</u></u>		<u><u>6,371,491</u></u>

SCHEDULE - 10

OTHER RECEIPTS, RECOVERIES AND PROCEEDS

1) Liability no longer required written back	221,718		56,748	56,748
2) Miscellaneous Receipt	17,696			
3) Bad Debt Recovery	-			
4) Recovery of salary	491,247			
TOTAL		<u><u>730,661</u></u>		<u><u>56,748</u></u>



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

AMOUNT IN RUPEES

AS AT 31ST MARCH, 2022 AS AT 31ST MARCH, 2022 AS AT 31ST MARCH, 2021 AS AT 31ST MARCH, 2021

SCHEDULE - 11

ESTABLISHMENT EXPENSES & OTHER

ADMINISTRATIVE EXPENSES

Salary and Wages	32,738,804		35,768,326	
Contribution to Provident Fund	4,651,704		3,614,187	
EDLI charges	65,310		48,346	
PF Administrative Charges	193,819		150,584	
EDLI Administrative charges	-		303	
Contribution to Group Insurance	3,797		4,296	
Gratuity and other terminal benefit	4,655,344		1,515,612	
Leave Travel Allowances	-		748,545	
Leave Encashment	2,214,899		547,342	
Staff welfare expenses	62,839		21,180	
Fellowship, honorarium and retainership	4,002,092		4,176,128	
Salary for outsourced staffs	979,294		1,001,178	
Provident Fund demurrage charges	-		518	
Exgratia	10,000			
	49,577,902		47,596,545	
Less: Pertaining to Research and Development expenses (20:80)	<u>39,662,322</u>	9,915,580	<u>38,077,236</u>	9,519,309
Rent, Rates and Taxes		1,152,400		424,847
Insurance		16,173		12,458
Printing, stationery and consumables	74,414			222,762
Less: Pertaining to Research and Development (50:50)	<u>37,207</u>	37,207		
Postage, telephone and communication charges	283,445		341,352	
Less: Pertaining to Research and Development expenses (50:50)	<u>141,723</u>	141,723	<u>170,676</u>	170,676
Data Processing charges	104,413		380,502	
Less: Pertaining to Research and Development expenses (50:50)	<u>52,207</u>	52,206	<u>190,251</u>	190,251
Travel expenses				
Foreign	-		-	
Domestic				
Boarding and lodging	22,846		11,576	
Cost of tickets	112,824		98,252	
others	<u>391,211</u>	526,881	<u>93,692</u>	203,520



Vehicle Operational charges

Hire charges	556,620	556,620	581,532	581,532
Energy Cost	1,840,728		2,478,952	
Less: Pertaining to Research and Development expenses (30:70)	1,288,510	552,218	1,735,266	743,686
Water charges	87,690		200,720	
Less: Pertaining to Research and Development expenses (70:30)	61,383	26,307	140,504	60,216

Upkeep and Maintenance

General Upkeep (Horticulture, sweeping, pest control)	1,071,784		1,035,915	
Freight	-		11,145	
Repair & Maintenance of Building & furniture	61,880		440,918	
Office Maintenance	253,091		217,036	
Security charges	1,203,760		1,269,775	
Maintenance Stores including IT infrasture	118,103	2,708,618	26,984	3,001,773
Legal expenses	673,258		191,468	191,468
Professional fees and charges	296,249	969,507		

Auditors' remuneration charges

Statutory Audit fees	42,000		42,000	
Internal Audit fees, certification etc.	-	42,000	-	42,000
Liason Expenses		202,200		331,263
Advertisement and publicity		2,280		1,840
Bank charges, commission, exchange variation		8,578		6,862

TOTAL		16,910,498		15,704,463
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THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

SCHEDULES FORMING PART OF INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

AMOUNT IN RUPEES

	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2022	AS AT 31ST MARCH, 2021	AS AT 31ST MARCH, 2021
SCHEDULE - 12				
RESEARCH AND DEVELOPMENT EXPENSES				
Salary and Wages	32,738,804		35,768,326	
Contribution to Provident Fund	4,651,704		3,614,187	
EDLI charges	65,310		48,346	
PF Administrative Charges	193,819		150,584	
EDLI Administrative charges	-		821	
Contribution to Group Insurance	3,797		4,296	
Gratuity and other terminal benefit	4,655,344		1,515,612	
Leave Travel Allowances	-		748,545	
Leave Encashment	2,214,899		547,342	
Exgratia	10,000		-	
Staff training and welfare expenses	62,839		21,180	
Fellowship, honorarium and retainerhip	4,002,092		4,176,128	
Salary for outsourced staffs	979,294		1,001,178	
SUB TOTAL	49,577,902		47,596,545	
Less: Pertaining to establishment and other adm. Exp.	<u>9,915,580</u>	39,662,322	<u>9,519,309</u>	38,077,236
Expenditure for inspection	5,648,257		5,972,715	
Development of creel feel assembly of S4 loom	-		154	
Development of prototype ELEC. Dev. On asse. Jute	-		2,347	
Expenses for NABL Accreditation	135,074		161,000	
Expenses for TUFs inspecton	-		2,792	
Institutional membership fees	-		5,000	
Patent renewal expenses	-		51,500	
Expenditure for Bio chemical solution	134,832		279,840	
Expenditure for faster retting	-		181,410	
Expenditue for IJIRA Eco Mask	-		90,436	
Expenditure for Mill study	4,787		22,813	
Expenditure for vendor certification	45,359		2,676	
Expenditure for regulated morah feeding at spreader	-		1,749	
Expenditure for testing	80,261		33,215	
Expenditure for ISAPM	13,677		19,823	
Expenses for Inspection JTM 6.4	-		77,758	
Expenditure for sanitary napkin	154,263		383,297	
Residual tech service and pre project expenses	121,457		84,142	
Laboratory stores and chemicals	112,768		106,982	
IJIRA-NERC-Guwahati	219,341		-	
Expenditure for training	<u>7,587</u>	6,677,663	-	-
Repair and maintenance				
Scientific equipments		19,735	255,356	
Plant and Machinery		-	225,219	
Software		-	89,188	
Office Equipment		96,025	83,654	
Pilot plant maintenance		49,113	27,034	
Energy cost	1,840,728		2,478,952	
Less: Pertaining to Establishment and other admn. Expenses (30:70)	<u>552,218</u>	1,288,510	<u>743,686</u>	1,735,266
Printing, stationery and consumables	74,414			
Less: Pertaining to Establishment and other admn. Expenses (50:50)	<u>37,207</u>	37,207		
Water charges	87,690		200,720	
Less: Pertaining to Establishment and other admn. Expenses (70:30)	<u>26,307</u>	61,383	<u>60,216</u>	140,504
Postage telephone and communcation charges	283,445		341,352	
Less: Pertaining to Establishment and other admn. Expenses (50:50)	<u>141,723</u>	141,723	<u>170,676</u>	170,676
Freight and other charges		86,821		
Data Processing charges	104,413		380,502	
Less: Pertaining to Research and Development expenses (50:50)	<u>52,207</u>	52,207	<u>190,251</u>	190,251
Journals and periodicals, subscription expenses		28,069		254,094
		<u>48,200,776</u>		<u>48,728,127</u>



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2022

RECEIPTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	AMOUNT IN RUPEES
	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	
I. Opening Balances					
a) Cash and Cheques in Hand	14,082	53,170			
b) Bank Balance					
i) In current Accounts	616,731	1,628,029			
ii) In Deposit Accounts	93,816,709	104,359,204			
iii) Savings Account	6,907,838	1,874,495			
	101,355,360	107,914,898			
Admission Fees					
Corpus Fund		50,000			
II. Grants Received					
a) From Govt. of India					
Grant-in-Aid from GOI	16,500,000	15,000,000			
	16,500,000	15,000,000			
b) From other sources					
Sponsored Projects Fund					
UTILIZATION OF JUTE STICKS AND JUTE WASTE FOR EXTRA NABL-ACCREDITATION PROJECT WITH SHELL INDIA					
POWERLOOM SERVICE CENTRE PLAN					
POWERLOOM SERVICE CENTRE OTHERS					
DEV. OF STAND. FOR USE JGT IN RURAL ROADS					
DEV. OF JUTE_BASE_TEX_PRE_AND PULTRI COM.					
Transmigration of Mineral of Hydrocarbon					
	1,200,000	1,200,000			
PAYMENTS					
Opening Balances					
Bank Balance					
Book Draft with United Bank of India					
EXPENSES					
a) Establishment Expenses					
Salary for contractual staff	462224	115,356			
Retainer ship fees & outsourced fees	4687971	5,206,968			
Salaries & Wages	27481212	31,405,521			
Leave Encashment	597587	-			
Staff salary advance and general advance	1268405	-			
Contribution to Gr. Insurance	3797	-			
Contribution to PF	4336134	-			
Ex-Gratia	10000	-			
Leave Travel Allowance		748,545			
Public Relation Expenditure	202200				
Staff welfare	46672				
Gratuity	878896				
Actuarial fees		11,800			
	11,800	37,488,190			
Recovery from Staff Salary					
Professional Tax	136710	152,140			
Provident Fund Deduction	4336134	3,649,026			
Group Insurance Premium	21275	25,824			
PM cares fund	-	90,950			
Provident fund deduction - voluntary	1932363	289,923			
Retainership payable		38,557			
	1,200,000	4,246,420			
b) Administrative Expenses					
Advertisement		1,932			
Audit Fees, Certification etc.		31,414			
Legal Expenses		577669			
Postage & Telephone		371912			
Payment of outstanding liability		936943			
		116,043			
		422,962			
		805,145			



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
RECEIPTS AND PAYMENTS ACCOUNTS FOR THE YEAR ENDED 31ST MARCH, 2022

RECEIPTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	PAYMENTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021
	AMOUNT IN RUPEES			YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021
DEVELOPMENT OF HIGH SPEED ROLLER DRAFTING SYSTEM	-	-	Printing	117102	217,086
RECO_TYPE_AND Type B Bags	-	-	SUNDRY BALANCE WRITTEN OFF	-	1
NRDC PROJECT	-	-	Stationery & Consumables	94372	130,120
Pro-Dev Auto Jute Based Sanitary Napkin	-	-	Travelling & conveyance Expenses	361819	149,039
Dev_OF_PIA_Lami_JUTE_BIO-COM PACK FASTER RETTING OF JUTE PLANT	-	-	Vehicle & Transport	488650	548,635
FEASIBLE STUDY OF OIL FREE PROJECT	-	-	Gas & Electricity	1791531	2,357,072
			Expenditure for c alibration	43284	-
			Expenditure for Bio-chemical solution	121340	-
OF JUTE FIBRE INDUSTRY CONT. FROM MOT FUNDED PROJECT	-	-	Research Oriented Expenditure	14277	
		<u>305,667</u>	Expenditure for Textile India	471685	66,708
		2,055,667	Advance to party	88822	1,161,493
			Data Processing Services	1069867	7,000
			General Upkeep & horticulture Maintenance Stores	401732	347,150
			Office Maintenance & Maintent. (office equip. & sc. Equip.)	48840	807,653
			Repairs & Maintenance & building	74081	
			Repair & Maintenance (software)	1388112	1,354,342
			Security Service	110680	177,395
			Water charges	-	-
			Maintenance of Hardware & Infrastructure	-	-
			Earnest money deposit	1000059	-
			Expenditure for others	36595	-
			Bank charges, Exchange	8470	<u>8,016</u>
					9,620,236

III. Income on Investment From

- a) Earnmarked/Endow. Funds
b) Own Funds (Oth. Investment)



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

RECEIPTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	PAYMENTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021
	AMOUNT IN RUPEES					
IV) Interest Received						
a) Interest on Refund						
b) On Fixed Deposit	3,705,903.00	817		28,069	9,640	
c) Interest on Savings A/c.	185,473.00	142,620		287,872	135,398	
d) Interest on Spl. Reserve	5,427,729.06	143,437		588,564	12,458	
	<u>9,319,105.06</u>			540,000	424,847	
V. Other Income						
Subscription	6188602	4,969,381			18,746	
Calibration charges	424387	257,830				
Certification Fees	1143127	852,998		6,058	77,220	
Bad Debt Recovery						
Consultancy Charges	2256880	387,148				
FGJP Testing charges & Bio chemical solution	842678	1,440,550				
Professional Fees for Disaster Management						
Testing charges	1270918	925,945		20,118	5,990,826	
Mask Processing		3,009		1,704	71,950	
Technological Conference				162,803	36	
Electricity charges Fees					1,826	
Machineries User Fees					341,971	
Private Security Fees						
Training programme at PSC	257985					
Annual Maintenance at PSC	2360					
Testing at PSC	92410					
Licence Fee for chemical solution						
RENTAL INCOME						
INSPECTION CHARGES	37147982	35,861,080			24,870	
Process Audit of FGJP	31580	223,220		18,897	74,475	
Technology Transfer Fees	0	265,500		30,427		
MIS. INCOME	7000	696,066		71,250		
Professional Fees				74,808		
Fees from NIB Incentive Scheme (ISAPM & CSAPM)						
Advance from Party	1322660	650,000		8,616	2,348	
Vendor Certification fees	49604	146,320		14,628	8,603	
Income from training fees	271577				154	
Income from training fees consideration from JRMB	825624				10,300	
	7,827			41,953	2,676	
						<u>7,208,344</u>



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

AMOUNT IN RUPEES

RECEIPTS	YEAR ENDED	YEAR ENDED	YEAR ENDED	YEAR ENDED	YEAR ENDED
	31ST MARCH, 2022	31ST MARCH, 2022	31ST MARCH, 2021	31ST MARCH, 2021	31ST MARCH, 2021
VI. Any Other Receipts & recoveries etc.					
a) Deductins on salary and Other Payments Service to Industry	4,299	209,824	525,029	177,777	
b) Contra with Establishment Admin. & Other Payments					247
c) Others					
Refund From Sundry Creditors	169,299		15,653		
Refund of tour advance	91,484		85,512		
Current Liabilities					
Provision for Rates & Taxes			375		
Sundry Creditors	41480		143,459		
Professional Tax	482218		43,280		
Provident Fund Deduction	28270		413,244		
TDS on contractor	85817		43,853		
TDS on professional	211188		92,491		
Group Insurance Maturity Settlement			16,898		
Easnest Deposit	1025000	1,873,973	778,600		
PAYMENTS					
PAYMENTS MADE AGAINST FUNDS FOR VARIOUS PROJECTS					
DESIGN AND DEV. OF CONT_DAMP_CALENDR_CUT MACHIN					
JUTE BASED AIR FILTER HAVE ANTI MICRO					
Bio Chemical Softening of Hard Root Cutting					
Dev of PLA LAMI JUTE BIO COM PACK					
Techno Commercial Feasibility Study RBO					
Transmigration of Mineral Hydrocarbons					
TOSSA GRADE OF BIML FIBRE					
Provision for Exp. For PSC Plan					
PROVISIOON FOR MOT PROJECTS					247



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

RECEIPTS	YEAR ENDED	YEAR ENDED	YEAR ENDED	PAYMENTS	YEAR ENDED	YEAR ENDED	YEAR ENDED	AMOUNT IN RUPEES
	31ST MARCH, 2022	31ST MARCH, 2021	31ST MARCH, 2021		31ST MARCH, 2022	31ST MARCH, 2021	31ST MARCH, 2021	
I. Tax Deducted at Source (From Bills and REFUND	1,558,570		385,170	Promoting the usage of Geotextile				
Accrued Interest on Short Term and Special Reserve Fixed Deposit		1,504,725		Dev. Of standard for use JGT in Rural Roads				
Prior Period Adjustment		3,103,244	4,607,969	Powerloom Service Centre Plan	365,845	1,080,762		
Sundry Debtors				Powerloom Service Centre Others			10,740	
GST				JTM 6.4				
Recovery of salary	491,247			DEV_OF_JUTE_BASE_TEX PRE AND PULTRU COM			2,792	
REFUND OF SALARY ADVANCE				Expenditure for TUF Inspection Pro-Dev Auto Jute Based Sanitary Napkin				
Advance from Parties				NABL Accreditation			25,960	
Refund of Advance	6,397							
Others								
Festival Advance	147,500		13,500	Provision for Dyeing Silk				
				Productivity Norms for Type A 50 kgs. Capacity bags				
				DEVELOPMENT OF HIGH SPEED ROLLER DRAFTING SYSTEM				
				FASTER RETTING OF JUTE PLANT		118,327		
				FEASIBLE CITY OF OIL FREE PROCE OF JUTE FIBRE				
				JUTE THER COMP FOR GREEN PROV. DEVELOP			6,000	
				SETTING				
				UP FCI DIGITAL PRINTING				
								1,244,581



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	AMOUNT IN RUPEES
RECEIPTS					
PAYMENTS					

UTILIZATION OF JUTE STICKS AND JUTE WASTE FOR EXTRA		4,071
PROJECT WITH SHELL INDIA		<u>4,071</u>
EXPENDIURE ON FIXED ASSETS AND CAPITAL WIP		
Computer		
Library Books & CDs	19,624	
Office Equipment	30,000	
Scientific Apparatus		
Electricals Fittings & equipments		
Plant & Machinery	102,850	
		<u>152,474</u>

IV.

V

OTHER PAYMENTS		
Security Deposit		
Prepaid Expenses		
Earnest Money Deposit	44,000	
Gr. Insurance Maturity Settlement	211,188	
Laboratory Stores & Chemical		
Outstanding Liabilities (refund of		
EXPENDITURE FOR		
Expenditure for Chemical purchase for FGJP		
Testing & other testing		
Advance to parties	45,094	
Sundry Creditors	994,733	
Festival Advance		
Exp. For Feasibility oil free	450,000	
Other Advance to Staffs		
Staff Salary Advance & general advances	24,500	
Staff Welfare Exp.	1,729,273	
Honorarium	3,818,534	
Software Development & upgradation	331,263	
		15,000



**THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022**

RECEIPTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021
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PAYMENTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021
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TDS on Contractor	68,893	101,274	
TDS on Professionals	106,520	127,675	
TDS on salary	1,857,260	1,680,330	
Miscellaneous Exp. (refund of Testing charges)		7,080	
Scientific Apparatus			5,000
Institutional Membership Fees			1,093,867
Liability for Gratuity			590,260
Liability for Leave Encashment			18,600
Refunded of Performance guarantee			20,000
General & Tour Advance	80,000		
GST	6,641,286		4,956,501
Adjusted of GST TDS, income tax deducted at source, etc.	1,648,010		708,884
Prior period Adjustment			634,106
			10,657,157



THE INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION
RECEIPTS AND PAYMENTS ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2022

	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021	AMOUNT IN RUPEES
RECEIPTS	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021	
		PAYMENTS			
		YEAR ENDED 31ST MARCH, 2022	YEAR ENDED 31ST MARCH, 2021	YEAR ENDED 31ST MARCH, 2021	
		22,475	14,082	14,082	
		2,201,326	616,731	616,731	
		98,336,655	93,816,709	93,816,709	
		9,512,854	6,907,838	6,907,838	
		110,073,310	101,355,360	101,355,360	
		185,070,260	185,070,260	185,070,260	
		178,467,659	178,467,659	178,467,659	
		VI CLOSING BALANCES			
		Cash & Cheques in Hand			
		22,475	14,082	14,082	
		Bank Balances			
		In Current Account	616,731	616,731	
		In Deposit Account	93,816,709	93,816,709	
		In Savings Account	6,907,838	6,907,838	
		110,073,310	101,355,360	101,355,360	
		185,070,260	185,070,260	185,070,260	
		178,467,659	178,467,659	178,467,659	

Note : The Receipts and Payments Account of the Association has been prepared based on the draft format as recommended by the Govt. of India, Ministry of Textiles vide their Office Memorandum No. 26008/10/2000-B&A/271 dated 20/10/2000. The Draft format is duly modified to suit the requirement of disclosure in certain cases.

AUDITORS' CERTIFICATE

We have examined the above Receipts & Payments Account of The Indian Jute Industries' Research Association for the year ended 31st March 2021 with the Cash & Bank books maintained by the Association at Kolkata and certify that the same are in accordance therewith and in conformity with the intimation and explanations given to us and read with the note above.

For M. R. Sen & Co.
 Chartered Accountants
 FRN - 0307054E



CA Jayanta Kumar Kundu
 Partner
 Membership No. 053199
 UDIN: 22053199ARKKQW2229
 Place : Kolkata
 Dated : 08.09.2022

(Signature)
 Director
 IJIRA

(Signature)
 Chairman
 IJIRA Council of Management





INDIAN JUTE INDUSTRIES' RESEARCH ASSOCIATION

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