

# Natural Fibers with Cultivation & Uses

**(Leaf Fibres, Bast Fibres, Flax, Hemp, Jute, Knaf, Ramie, Sunn or Sunn Hemp, Abroma Augusta, Sisal, Mauritius Hemp, Pineapple Fibre, Caroa Fibre, Abaca or Manila Hemp, Coir or Coconut Fibre, Coco Fibre, Kapok Fibre, Akund Floss)**



# Introduction

Fiber or fibres (see spelling differences) are a class of hair-like materials that are continuous "filaments" or are in discrete elongated pieces, similar to pieces of thread. They can be used as a component of composite materials. They can also be matted into sheets to make product such as paper or felt. Fibers are of two types: natural fiber, which consists of animal and plant fibers, and man-made fiber, which consists of synthetic fibers and regenerated fibers. The earliest evidence for humans using fibers is the discovery of wool and dyed flax fibers found in a prehistoric cave in the Republic of Georgia that date back to 36,000 BP.

Natural fibres are generally considered more environment friendly than synthetics in their production and disposal. However, there is great variation depending on the fibre and the growing conditions. Many chemicals are used to contain pests and weeds. Chemicals are also used in the processing and dyeing which can lead to water contamination. Processing of some natural fibers can lead to high levels of water pollutants, but they consist mostly of biodegradable compounds, in contrast to the persistent chemicals, including heavy metals, released in the effluent from synthetic fiber processing. Farming and production of natural fibres also plays a significant role in eradicating poverty as an important source of farming income and contribution to food security in developing countries.

Demand for natural fiber composites are largely driven by increasing environmental awareness. Due to low cost, low density, acceptable specific properties, ease of separation, enhanced energy recovery, CO<sub>2</sub> neutrality, biodegradability and recyclable properties, natural fiber use in composites is gaining as demand grows for component materials that are durable, reliable, light weight, with mechanical properties better than those of traditional materials. Total global natural fiber composite market expected to grow at 11% CAGR.

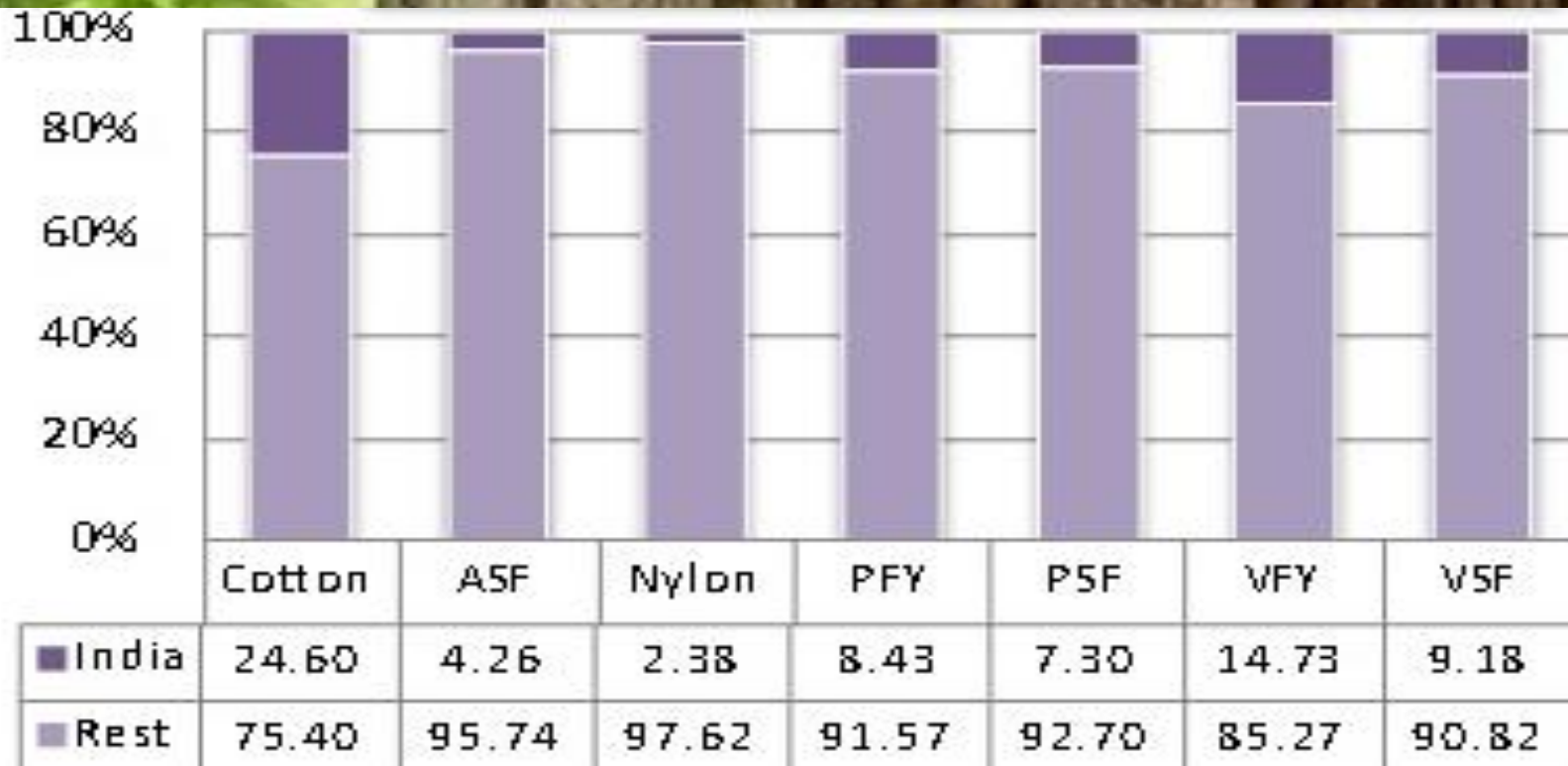
# **Market Outlook**

India accounted for 7.3% of World's manmade fibre/filament output with production volume of 6.4 million tons.

India is a major exporter of cotton fibre, ranking second in 2014.

In 2014, India produced 4.14 million tons of manmade fibres 6.4 million tons of cotton.

# India's Share in World Production



The NFCs market was worth USD 3.36 Billion, in 2015, and is projected to reach USD 6.50 Billion in 2021 expected to register a CAGR of 11.68%, between 2016 and 2021. Natural fibers have become crucial in technical composite applications due to the demand for recyclable and biodegradable raw materials.

The market size is projected to reach USD 6.50 Billion by 2021, at a CAGR of 11.68%, between 2016 and 2021.

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# Tags

Vegetable Fibre Plant, Natural Fiber, Vegetables for Fiber, Jute Cultivation, Jute Cultivation in India, Jute Processing, Kenaf Production, Growing and Production of Kenaf, Kenaf Fibre Plan, Kenaf Cultivation, Fiber Production, Processing of Kenaf, Jute Cultivation and Jute Industry, Jute Processing Steps, Jute Industry in India, Jute Business, Ramie Natural Fiber, Ramie Plant, Fiber from Ramie Plant, Growing Plants for Natural Fibers, Planting Ramie, Growing Ramie, Bast Fibres Processing, Fiber Plants, Grading of Ramie, How to Grow Sunn Hemp, Sunn Hemp Cultivation, Sunn Hemp Cultivation in India, Sunn Hemp Fiber, Abroma Augusta, Sisal Plantations, Sisal Fibre, Sisal Plant, Cultivation of Sisal, Pineapple Fiber, Pineapple Leaves Fibre, Natural Fibre from Pineapple Leaf, Pineapple Farming, Commercial Pineapple Cultivation, Pineapple Cultivation, Pineapple Plantation, Pineapple Farming in India, Pineapple Farming Profitable Business, Coir or Coconut Fiber, Process of Making Coconut Fibre, Coconut Fiber Processing, Coconut Coir Processing, Coir Fibre Manufacturing Process, Coir Industry in India, Coco Fibre, Palmyra Fibre, Palmyra Bassine Fibre, Palmetto Fiber, Papermaking Fibres for Paper, Papermaking Fibres, Plant Fibre for Papermaking, Paper and Paper Making, Pulping & Conversion, How Panama Hats are Made, Panama Hat Making, Manufacturing Process of The Panama Hats, Panama Hats Manufacture, Fibre Yielding Plants of India, Extracting Fibres from Plants, Leaf Fibre Plant, Leaf Fibres From Plants or Vegetables, Flax Seed Cultivation, Growing Flax Seed,

Flaxseed Cultivation In India, Growing and Processing Flax, Grading of Flax, Jute Fiber Extraction, Sorting and Grading of Jute, Growing Roselle Plants, Growth and Yield of Roselle, Rosella Growing, Mauritius Hemp Plant, Growing Mauritius Hemp, Furcraea Foetida and Growing Mauritius Hemp, Furcraea Foetida Plant, Furcraea Cabuya, Furcraea Macrophylla, Furcraea Andina, Furcraea Humboldtiana, Furcraea Cubensis, Washing & Bleaching, Baling and Grading, Caroa Fiber, Caroa Fiber as Paper Making Material, Kapok Fibre, Kapok in India, Akund Floss Plant Fibre, Tucum Fibre, Date Palm Fibre, Manufacturing of Natural Fibre, Doum Fibre, Grading and Packing, Brush Making Fibres, Jaumave Fibre, Gomuti Fibre, Broom Root, Palmetto Fibre, Bamboo, Toquilla, Weaving and Bleaching, Alpinia Chinensis, Polygala Gomesiana and Other Sources or Rope, Bast Fibres, Bast Fiber Processing, Bast Fiber Plant, NPCS, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up,

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- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*

*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*



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- *Market Research Reports*
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- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
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- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*

# Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

# Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

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- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

# Sectors We Cover *Cont...*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

# Sectors We Cover *Cont...*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

# Sectors We Cover *Cont...*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitability Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

# Sectors We Cover *Cont...*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*



# Sectors We Cover *Cont...*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

# Sectors We Cover *Cont...*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

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- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

# Contact us

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