



## FOREST, THE RAW-MATERIAL, PULP ARE SOURCES OF PAPER INDUSTRIES AND ARE PAST AND FUTURE OF THE INDIA, AND THE GLOBE DURING COVID-19 OUTBREAK

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### AUTHOR'S CONTRIBUTION

The sole author designed, analysed, interpreted and prepared the manuscript.

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### ABSTRACT

After independence in our country, paper industries has bright future but at the this century, large amount of paper is required. Due to this reason , paper industry has bright future, for this purpose forest cover TREE-PLANTATION, must be done. From forest, we get food, fodder, fuel, Pharmaceutical-products,, vitamins, pure air, & stoppage of floods etc.

**Keywords:** Paper; pulp-industry; raw-material; past; present; future; Covid-19 outbreak.

### 1. INTRODUCTION

#### 1.1 History of Paper Industry in India

**In modern days also paper has same importance as food, clothing and shelter. Due to its use in communication as well media for printing newspaper.** After Independence, we are taking survey of utilisation of energy and water from, 1981, in India 10,49000 tones of paper were used. In report of 1992, it becomes twice means 20,8000 tons. In this 2000, series paper use become 3 kg. 20 grams /man, and it becomes 5.6 % increased as compared to 1992. Therefore, in future requirements will increase ten thousand tons of paper [1-3].

#### 1.2 Paper Industries in India and the Globe

In 1812, first paper plant was started in India at Serampur, West-Bengal. Today, 340 paper industries upto 1994, in 1913, 13 more paper plants were started and production was near about 19 thousands tones. In 1943 it was 100,000 tones [4]

#### Top 10 Paper Mill, Paper Manufacturing Companies in India [5]

1. TamilNadu Newsprint Paper Ltd.
2. Ballarpur Industries Ltd. (Avantha)
3. International Paper APPM -Ltd.
4. J.K.Paper Ltd., Central Pulp Mills, Songarh, (Gujarat) , JK Paper Mills, Raygada supplies office paper, packaging Boards, Printing and White Paper, speciality Paper with Parchment, Cedar digital and MICR cheque Paper.
5. The West Coast Paper Mills Ltd. (SKB).
6. Seshasayee Paper Mills and Boards Ltd.
7. Kushal Paper Mills Ltd. Established in 2000, supply, paper and paper products etc and also provide other products.
8. Emami Paper Mills Ltd.
9. Kuantum Paper Mills Ltd.
10. Satia Industry Ltd. :- It is the biggest wood and agro-based Paper plants in India. The company manufacturers paper using wood chips, Veneer waste, wheat straw,. It provides printing and writing materials. Established by Dr. Ajay Satia [5].

Pulp and Paper Industry Mark: Real time Analysis Forecast by 2025, (26,June, 2020) [6]. Global pulp and Paper Industry Mark: Insights, Forecast to 2025 report is based on comprehensive analysis conducted by experienced and professional experts. The report mentions factors that are influencing growth such as drivers, restrains of market. The report offers in depth analysis of trends and opportunities in Pulp and Paper Industry Market. The report offers figurative estimations and predicts future for upcoming years on the basis of recent developments and historic data. For the gathering information and estimating revenue for all segments, researchers have used top-down and often bottom up approach. On the basis of data collected from primary and secondary research and trusted data sources the report offers a future predictions of revenue market share.

## 2. IMPACT OF COVID-19 IN PULP AND PAPER INDUSTRY MARKET AT GLOBAL LEVELS [7].

The utility owned segment is mainly being driven by increasing financial incentives and regulatory supports from the governments globally. The current utility owned. Pulp and Paper Industry are affected primarily by Covid-19 Pandemic. Most of the projects in China, the US, Germany, and South Korea are delayed, and the companies are facing short term operational issues due to supply chain constraints and lack of site access due to the Covid-19 outbreak. **Asia-Pacific** is anticipated to get highly affected by the spread of the Covid-19, causing the effects in China, Japan and India. China is the epic centre of the this lethal disease and major country in terms of chemical industry.

## 3. KEY BUSINESSES SEGMENTS OF PULP AND PAPER INDUSTRY MARKET AND THEIR APPLICATIONS

1. Packging consumer Products, Chemicals, Buildings, Constructions and others.
2. On the basis of Product, this report displays the Sales volume, revenue (Million USD) , Product price, Pulp and Paper Industry Market share and growth rate of each type, spilt into -a) Pulp , Paper, Cardboard, other.

### 3.1 Pulp and Paper Industry Market Region Analysis of the Globe —It Includes

1. ASIA-PACIFIC (Vietnam, China, Malaysia, Japan, Philippines, Korea, Thailand, India, Indonesia, and Australia).

2. Europe (Turkey, Germany, Russia, UK, Italy, France etc.
3. North America (the US, Mexico and Canada.
4. South America (Brazil etc) .
5. The Middle East and Africa (GCC countries and Egypt.

### 3.2 Key Highlights Of The Table Contents

- A. Pulp and paper industry market study coverage:--It includes key market segments, key- manufacturers, covered, the scope of products offered in the years considered, global pulp and paper industry market and study objectives. Additionally, it touches the segmentation study provided in the report on the basis of the type of product and applications.
- B. Pulp and paper industry market Executive Summary:- This section emphasizes the key studies market growth rate, competitive landscape, market drivers, trends and issues, in addition to microscopic indicators.
- C. Pulp and Paper Industry Market Production by Region:- The report drivers data related to important export, revenue, production and key players of all regional markets studied are covered in this section.
- D. Pulp Paper Industry and Market Profile of Manufacturers:--Analysis of each market player profiled is detailed in this section. This segment also provides SWOT means, S=Strength, W=Weakness, O=Oppportunity, T=Threats, analysis products, production, value, capacity, and other vital factors of the individual player.

### 3.3 Key Question Ansered about Global Pulp and Paper Industry Marketing

1. To gain insightful analyses of the Pulp and Paper Market and have comprehensive understanding of the global market and its common landscape.
2. Assess the production processes major issues and solutions to mitigate the development, risk.
3. To understand the most affecting driving and restraining forces in the market and its impact on the global Pulp and Paper Industry Market.
4. Learn about the Pulp and Paper Market Industry Market strategies that are being adopted by leading respective organizations.

5. To understand the future outlook and prospects for market.
6. Besides, the standard structure reports, we also provide custom research according to specific requirements.
7. The Indian paper industry accounts for about 4% of world's production of paper. Estimated turnover of 70,000 crores industry provides direct employment to 50,000 persons and indirectly around 1.5 million persons.

Indian Paper Industry is poised to grow and touch 25 million in 2019-2020, from 20.37 million tons in 2017-18.

#### 4. CLASSIFICATION OF PAPER INDUSTRY BASED ON RAW MATERIALS IN INDIA

It is of 3 types-

- a) Forest based RAW materials;- It provides 14 , 85000 tones and its percentage is 43% e. g. East and South States.
- b) Agro-based raw materials:-It provides 28% means 9,74000 tones . e. g. South and West Region.
- c) Industry based on old paper and Industry based pulp:- It provides 10,04000 tones of paper.

#### 4.1 Scarcity of Raw Materials

In Indian Industries, mainly forest and agriculture provides raw materials to paper industries, due to deforestation Act production was stopped hence for this purpose we have to find out another raw material sources for paper industries. Before 1980, bamboo and other forest products and agro-based production was 84% . But as raw material production decreases up to 53% then wasted paper provides 15% production while pulp and other raw material provides 9% paper production [8].

Sr. No.	Year	Production in (thousand) tones
1.	1913	19
2.	1940	45
3.	1941	95
4.	1943	102
5.	1950	116
6.	1960	345
7.	1965	539
8.	1970	759
9.	1975	829
10.	1980	1145
11.	1985	1500

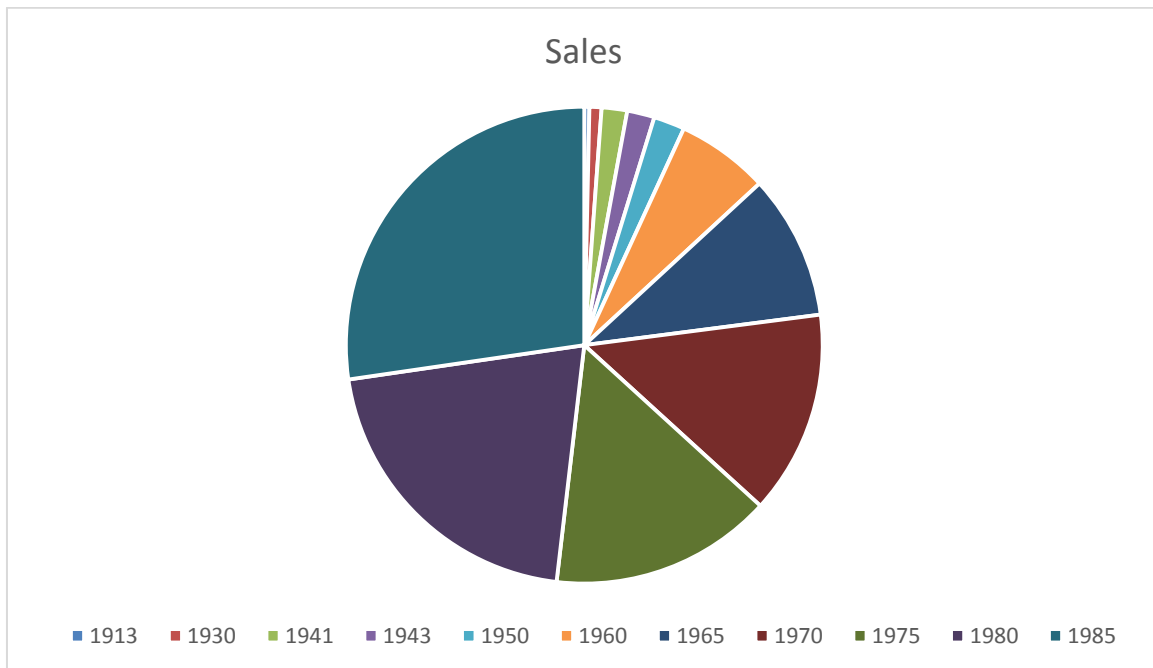


Fig . Scarcity of raw materials in Indian industries in thousand metric tones from 1930-1985

## 5. DISCUSSION

By considering all the information, and data available from older days, there were lots of trees, and plants, forest cover present around the Globe was sufficient and unpolluted, containing different types of plant like Angiosperms, Gymnosperm, Cryptogams, Phanaerogams. There are number of forest including fruit producing plants are also cultivated all over the world.

Fruit plants like Apples, Mango, citrus family plants, Dry fruits producing plants, Dates Cashew nuts, Almond and number of other plants provide different sources of income and life for man animals.

There are many TREE-PLANTATION Foundation in the world, some of these are as follows:-

- 1) **Philanthropist Betty Casey Foundation:-** In 2002, this foundation was set up, this non-profit after learning that the canopy in Washington D.C., once known as the **City of Trees**, had shrunk by 15 % since 1950s. Its strategy includes planting an average of 14,000 trees a year, training volunteer stewards of all ages, providing, continuing education courses, and creating interactive online tools like the Tree Benefit Calculator, which gauges the environmental value of any specific existing tree.
- 2) **The Million Trees Project :-** This movement started by cleaning up of non-profit tha has pulled almost 10.4 million pounds of trash from local waterways since 1998. Founder Chad Pregracke has expanded the movement to grow native Oaks from volunteer collected acorns, tend them in a nursery and then transfer them to river banks, and water shads. The organisation met its first million tree milestone in 2016, and is shooting for a second one.
- 3) **Ireland will plant 22 Million Trees Every Year to Fight Climate Change.**
- 4) **Plant 50 Million Trees:-** On Earth Day 2018, the National Forest Foundation launched its campaign to do just that in U.S. forests within 5- years.
- 5) **The Green Belt Movement :-** It was started in 1977, and founded by Kenyan Professor Wangari Maathai, recipient of the 2004 Nobel Peace Prize, GBM (Green Belt Movement), to this date, have planted more than 51 million trees in Kenya. Though, Maathai passed away in 2011, more than 4000 affiliated community groups carry forth her work.

- 6) **The Time For Trees:-** The Arbor Day Foundation started this initiative which was aims to plant 100 million trees and enlist five million tree planters by 2022, [9].

## 6. SIGNIFICANCE OR CONCLUSION

1. In this Computer and digital years, also computer need a paper for launching projects providing information, database, and other official purpose. Therefore, we must say that, paper industry has bright future in the 21 st Century.
2. It is essential to plant /cultivate, the trees social plantation for the paper industry.
3. Number of fruit plantation, all plant provides us pure air,, free, air, and also avoid the flooding.
4. It provides raw products, employment and food, fodder, vegetables and vital sources of life vitamin and Pharmaceutical products.
5. It provides a raw materials for the cosmetics and food supplements for all living animals.
6. It provides a food and water through water cycle, and also Shelter for large number of organisms.

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## COMPETING INTERESTS

Author has declared that no competing interests exist.

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