



INDIAN PULP & PAPER
TECHNICAL ASSOCIATION



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

The background of the top half of the poster is a photograph of the Taj Mahal in Agra, India. The white marble mausoleum is reflected in the central channel of the reflecting pool, flanked by manicured gardens and minarets under a clear blue sky.

KNOWLEDGE TOUR -II TO KOREA

20th to 27th October, 2018

New Destination, New Vision, New Direction



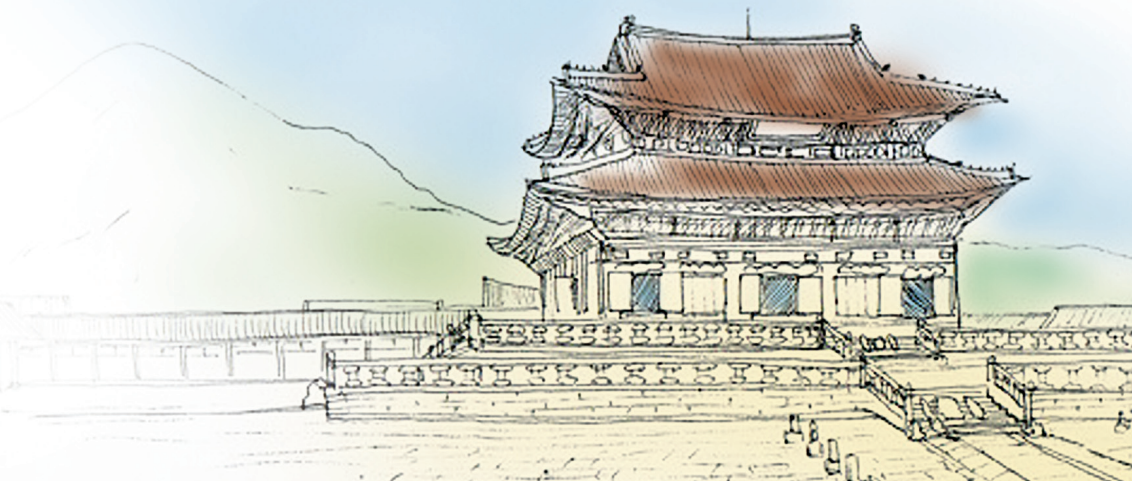
KNOWLEDGE TOUR -II
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IPPTA

Indian Pulp & Paper Technical Association







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PREFACE

Encouraged with the resounding success of our Knowledge Trip -1 which was undertaken around couple of years ago to China, IPPTA has been looking forward to organizing their next trip to paper mills in south east Asia. Any trip of such dimension needs organizational backing and willingness of hosts to liaison with paper mills to plan the trip. Besides, finding logistically located mills which fall in line with the travel plan is a tough call. We are thankful to Dr Thapliyal – Director CPPRI and efforts of United Nations Industrial Development organization for their enormous support and guidance which has made this trip possible. Special thanks to Ms Lee Hye Young for her excellent support.



Many delegates from India have visited paper mills in China and Indonesia in past but only few had an opportunity to visit mills in South Korea. It is heartening that despite a slow start, registration picked up remarkably later, so much so that we had to close the booking and regret many participants. On the other hand, we are happy to inform that whosoever registered within stipulated time has been accommodated in the group. The group is an excellent combination of executives from large mills and surprisingly medium sized mills owner in large numbers. UNIDO has provided us opportunity to attend one session with KTAPPI and it would be a nice experience for members to watch the proceedings of seminar similar to IPPTA overseas.

So, let us all enjoy the trip and enhance our knowledge as much as possible. It is also requested that some of you may prepare a short report on this visit with pictures on return to India and IPPTA would publish two best reports in the next journal. Such efforts shall also be acknowledged appropriately.

The key to success of the trip would have a lot of bearing on following the schedule punctually. Let us be first at venue rather being last. We have thought of creating a WhatsApp group IPPTA Korea Knowledge Trip - 2 to help group communication with each other. Please use it for knowledge sharing only.



The weather is expected to be perfect in range of 20°C/8.C. You would need moderate woolen and it would be great if you carry suite and visit mills in a formal dress. We have made best efforts to organize lunch and dinner at Indian restaurant as far as possible. . It would also be appropriate not to miss carrying your personal medicines.

It is a matter of pride for IPPTA to have stitched up this large a group for a trip of this magnitude. To the Best of our knowledge and information, no other paper mill-based organization from India has ever attempted a trip of this size second time. Thanks to all our members for their response and support. Let us respect rules and regulations of host country/ company and present an excellent image of IPPTA and India. All are also requested to maintain punctuality to get best out of the tour.

Despite our best efforts some shortcoming in arrangement / execution may occur during the trip, I therefore request all the guests to kindly bear with us and extend their cooperation in such an eventuality. We are sure that with your feedback, we shall try to enrich the deliverables to a even greater level next time.

M. K. Goyal

Secretary General IPPTA & Convenor - Korea Delegation





PRESIDENT'S MESSAGE



Korea is one of the Asian economies which has really moved on fast track with great consistency in this century. India has to learn from the Korean experience as how to compete with the global giants by an intelligent mix of innovation and adaptability. Today, Korean companies are household name in India. Companies like Samsung, LG and Hyundai have earned great respect amongst the Indian consumers mainly because of “value for money” being offered by them.

The Indian paper industry has a very unique feature that it can not create large economy of scales due to challenges related to infrastructure, availability of fiber and environment. So, it has to adapt the globally advanced technologies to its smaller scales and it is where the Korean model can provide a learning model. The Korean paper industry has also procured state-of-the-art-technology with manufacturing from Japan or China or even within Korea.

The IPPTA delegation would like to explore the possibility of getting leading paper and board manufacturing technology from the sources that have provided the same to Korean paper mills.

On the environment front, the Indian paper mills have changed gears from first to top within past 5 years. Still, there are lot of challenges including those of effluent treatment, solid waste minimization and disposal, air emission and fresh water



reduction. IPPTA delegation would again like to learn from the initiatives taken by Korean paper industry in this challenging area.

In the end, it will be the focus of Indian delegation to explore the possibility of collaborating with Korean paper and allied industry in order to create value without adversely impacting ecology and environment.

I would like to thank UNIDO and host paper mills for organizing this maiden trip of IPPTA members to Korea. I am sure this will be a great learning experience for all the members of this delegation. I also take this opportunity to invite Korean paper industry to visit India in near future.

Best wishes,

Pawan Agarwal

President - IPPTA





ABOUT INDIAN PULP & PAPER TECHNICAL ASSOCIATION (IPPTA)

IPPTA, Indian Pulp and Paper Technical Association, born in 1964, is a family of professionals from the Pulp and Paper, Newsprint and Allied Industries. Its Head Office is located at Saharanpur, Uttar Pradesh State in the premises of Central Pulp & Paper Research Institute, a leading Research Centre of the country dedicated to the pulp and paper industry. The first Seminar of Indian Pulp and Paper Technical Association was held in Vigyan Bhawan, New Delhi on 11th & 12th April 1964.

IPPTA Office is situated in its own building in the Campus of Central Pulp & Paper Research Institutes (A leading Pulp & Paper Research Institute of India) at Saharanpur in the State of Uttar Pradesh, India, at a distance around 170 km from Delhi, the Capital of India.

Objectives of IPPTA

IPPTA, the Indian Pulp and Paper Technical Association, is an association of professionals engaged in Pulp, Paper, Newsprint and Allied Industry in India. The Main aims of IPPTA are:

- To promote the spirit of fraternity among its members to improve professional efficiency.
- To create the awareness about the fast changing technology of the world for better productivity and quality.
- To provide a common platform to its members to exchange their achievements ideas, experience and problems faced in their day to day professional career.



IPPTA Activities

IPPTA is organizing one annual Convention every year in four metropolitan cities i.e. Delhi, Chennai, Mumbai & Kolkata by rotation and one Zonal Seminar in any other part of India. IPPTA is also organizing one Workshop Programme every year, where in-depth subjects are discussed related to Indian Paper Industry requirements. The Annual Convention and Zonal Seminar are generally attended by over 400 Technocrats, Scientists, Engineers & Administrators from Pulp, Paper, Allied Industries, IPPTA Members from abroad and Government Organizations on latest different topics. Catering to the needs of Indian Paper Industry, IPPTA is also publishing quarterly Journals, which contents technical articles related to Pulp and Paper Technology are published, received from different eminent authors from Paper & Allied Industry, different research Institutions from India and Abroad. IPPTA is also publishing Directory of Indian Pulp, Paper & Allied Industries in India and its Members Directory time to time.

Membership Profile

From a modest beginning, IPPTA has continuously grown with the active support of the Technologists in the Paper and Allied Industries, Government Organizations and abroad. Today IPPTA commands a membership of over 2500, including around 100 Overseas Members. The members include engineers, technologists, administrators, scientists and those who are directly and indirectly connected with manufacture, distribution and conversion of pulp, paper, board, newsprint and also from allied industries such as machinery and chemical suppliers.

Management

IPPTA is managed by an Executive Committee consisting of a President, Vice President, Executive Secretary and members. IPPTA also has an Editor-in-Chief responsible for all publication activities of IPPTA. All these office bearers are senior executives from paper mills, paper machinery manufacturer and research institutes connected with paper.



Contribution to Industry

IPPTA has broken the age old barriers of secrecy in the industry what was once thought to be a big key-word with the mills. The industry has now realised the great advantage derived from mutual discussions and exchange of information from the common platform of IPPTA. IPPTA is organizing National and Zonal Seminars/Workshops, in different parts of the country, on wide range of topics which is a major activity of IPPTA. These seminars provide an opportunity for the participants to learn about the latest developments from the experts and enable members develop personal contacts with the peers in the industry. IPPTA conducts seminars on Technology, Energy Conservation, Resource Optimization, Environment Management etc. These seminars have proved to be very successful, leading to many useful conclusions, which have benefited the industry, Government and others concerned with formulating policies, strategies and plans for improving overall performance of the paper industry.



ABOUT UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION (UNIDO)

In the early 1950s the United Nations Economic and Social Council undertook the worldwide research on the then industrialization of various developing countries. Based on the outcome of this research it requested the establishment of the Industrial Development Centre as an affiliated agency of the United Nations.

Mission Statement and Thematic Priorities

UNIDO has three thematic priorities to facilitate the sustainable industrial development of developing countries and countries in economic transition

- Poverty reduction through productive activities
- Trade capacity-building
- Environment and energy

Since then, the UN had aspired to expand its role and specialty in the field of industrial development of developing countries. Consequently, the United Nations General Assembly passed the Resolution 2152 (XXI) to establish the United Nations Industrial Development Organization (UNIDO) as an autonomous body within the United Nations on 17 November 1966. In 1985 UNIDO has been reformed into one of the specialized agencies of the UN.

Currently, the UNIDO headquarter is located in Vienna, Austria. Its thematic priorities lie in promotion of technology transfer and investment cooperation for trade capacity-building and sustainable development in developing countries, Co-friendly energy development and utilization. And, UNIDO assists the countries in conforming to the multilateral agreements on global environmental issues.

UNIDO seeks to facilitate job creation and ultimately, to increase the per capita income levels of developing countries. One of its commitments is hence to



identify the paths out of poverty through providing services ranging from industrial policy advice to fostering productive activities of joint ventures and SMEs in the countries via technology transfer.

To assist developing countries in strengthening their capacity to engage in global trade marketplaces, UNIDO supports and promotes a variety of forms of foreign direct investment into them. These may range from selling through selected buyers or agencies, exporting, co-R&D investment, licensing to joint ventures and establishment of a wholly owned subsidiary with production facility.

The energy and environmental aspect of industrial development among developing countries is of critical importance to sustain such development. To act upon this notion UNIDO researches and advices on the mode and effect of technology transfer as well as the mechanism of a certain technology suited to facilitate eco-friendly energy development and utilization. And, UNIDO assists the countries in conforming to the multilateral agreements on global environmental issues.

UNIDO employs about 700 staff members at Headquarters and other established offices around the world. Annually, we draw on the services of some 2,500 international and national experts who work on projects worldwide. Approximately 60 percent of the international and national experts are from developing countries.



LIST OF IPPTA EXECUTIVE COMMITTEE



Pawan Agarwal
President - IPPTA
Managing Director
Naini Group of Industries



Ved Krishna
Vice President - IPPTA
Head of Strategy
Yash Papers Ltd.



Neehar Agarwal
Immediate Past President - IPPTA
Chief Operating Officer
Ballarpur Paper B.V.



M. K. Goyal
Secretary General
IPPTA



A. K. Bansal
Executive Director
NR Agarwal Industries Ltd.



Ajay Gupta
Chief Executive Officer
Orient Paper Mills Ltd.



Anil Birla
Managing Director
Seascope Pulp & Paper Pvt. Ltd.



Anirban Khamroi
Sr. Vice President
Voith Paper Technology (India) Ltd.



Ankur Bindal
Director
Bindals Paper Mills Ltd.



Ashish A. Gupta
Sr. Vice President
Emami Paper Mills Ltd.



B. P. Thapliyal
Director – CPPRI,
Member Secretary,
Development Council for Pulp,
Paper & Allied Industries



Dharam Dutt
Professor
Department of Paper Technology, IITR



M. K. Gupta
Scientist F
Central Pulp & Paper Research Institute



Nitin Labhasetware
Sr. Principal Scientist
National Environmental Engineering
Research Institute (NEERI)



P. G. Mukundan
Secretary General
Indian Agro & Recycled Paper
Mills Association



P. S. Patwari
ED & CEO
Emami Paper Mills Ltd.



Prakash Rathi
Managing Director
Kaygaon Paper Mills Ltd.



R. Krishnaswamy
Chairman & Managing Director
Sripathi Paper & Boards Pvt. Ltd.



R. C. Rastogi
Representative of IRPMA, Chairman &
Managing Director Khatema Fibres Ltd.



Rohit Pandit
Secretary General
Indian Paper Manufacturers Association



S. V. R. Krishnan
Executive Director (Operations)
Tamil Nadu Newsprint & Papers Ltd.



Satya Pal Gupta
Representative of FPTA & Ex-President
Narsingh Dass & Co. Pvt. Ltd.



Satyajit Kanungo
Vice President (Business Dev.)
Arjun Chemicals Pvt. Ltd.



Shekhar Dessarda
Managing Director
Parason Machinery (India) Pvt. Ltd.



R. Vijay Kumar
Secretary General
Indian Newsprint Manufacturers Association



ABOUT KOREAN PAPER AND PULP INDUSTRY

Korea is a major paper and board producing country accounting 3% of the world production. This is the fifth largest in the world.

It is currently the 5th largest manufacturer of paper and board in the world after China, US, Japan, and Germany, regardless of the fact that it imports almost its entire wood pulp requirements.

Korean pulp, paper and paperboard market grew around 2.1% in 2017, due to greater purchases from corrugated paper as well as speciality paper producers. As trends indicate the consumption of printing paper used for books and magazines steadily decreased from 2.27 million tonnes in 2007, to 1.97 million tonnes in 2015. Despite the growing overall demand, the value of imports declined marginally, by less than 1% in 2016, as prices of imported paper materials registered a notable decrease over the year. Revenue of Korea's pulp and paper producers grows by 3% in 2016, thanks to positive market dynamics and 2% increase in value of exports. Industry's turnover is estimated to see 2% CAGR over 2016-2021, as demand for packaging materials, as well as speciality paper, is set to continue rising.

With focus now shifting towards eco-friendly and sustainability, paper packaging is expected to gain traction over plastic packaging, which poses significant threat to environment. South Korea's birth rate has been decreasing consistently for some years and therefore the number of single-occupancy households is increasing every year, South Korean consumers increasingly prefer convenient packaging in soft drinks categories such as juice drinks as they want to be able to consume products quickly and without fuss whilst on their way to work. Thus, smaller sizes and more convenient packaging formats are expected to become a more important area of focus for the key players in various non-alcoholic drinks categories, with juice drinks likely to continue setting the pace in these trends. Other emerging areas include leading players in craft beer who have



been successful in their attempts to expand their presence due to their focus on unique packaging label designs as well as players in various beauty and personal care categories.

Korea has 1 chemical pulp mill and about 60 paper mills which produce variety of products from writing and printing paper to speciality paper. The estimated turnover of its paper industry is \$ 8.7 billion while the annual amount of export is \$ 3.2 billion.

Recently, Korean paper industry adapted itself to the growing demand in specialty paper to improve exports. By venturing into Specialty paper it now produces higher value-added paper such as fine paper, HQ printing paper, sterilized paper, and glass protective paper besides the eco-friendly bio-plastic made of pulp and paper dust. Especially, Hansol Paper and Moorim Paper have shifted their main business to specialty paper through steady R&D and successfully turned into profit-making. As a matter of fact, mills which mainly produce newsprint are searching for other ways and means to improve their sales due to the decreased demands of newsprint in domestic and international markets.

As mentioned earlier Korean paper industry depends largely on imported pulp and due to recent rise in the international pulp price, with the same firming up further, an increase in selling price is expected in the domestic market.

Korean paper industry has put efforts on innovation for technologies, facilities, and processes to meet energy reduction and the climate change, thus technology enhancement from its efforts is expected. Recently, the paper companies there have invested in R&D in a big way for the paper materialization expecting it to bring new business portfolios. Also, strategies are being formulated to overcome decreasing demands in printing paper in both domestic and international markets.

Recently, the most Korean paper companies have invested in R&D for the paper materialization and it is expected to bring new business portfolios.



BRIEF PROFILE OF MILLS BEING VISITED

EMTECH CO. LTD.

Founded in 1977, Emtech Co., Ltd., which is ISO 9001 & 14001; 2007 certified, started its business in manufacturing rosin sizing agents for the paper industry. Emtech is a leading quality solution provider to the Pulp and Paper Industries offering comprehensive specialty chemical products. The company's major market and products are paper industries and defoamers.

It strongly believes that Pulp and Paper mills should have the best possible products available in order to enhance professional excellence. Our goal is to provide easy-to-use, highly reliable specialty chemicals that increases productivity and profitability by means of helping the machines run smoothly, greatly improving performance, ensuring personal and corporate safety. Thereby, providing a conducive environment to our customers which allows them to concentrate on matters other than fixing chemicals and allied issues.

Emtech is committed to work in partnership with its esteemed customers to understand and learn their demands in full to improve customer satisfaction, safety, environmental protection, product quality and productivity of the mills as they what to be partner in their success .





JEONG-WEON CHEMICAL CO. LTD.

JEONG-WEON Chemical started business with adhesives and binder in 1983. Since then, have been developing new items such as dispersant, thickener, organic pigment and so on. Currently, it has been supplying diverse additives for paper, paint, glass-fibre, leather and textile industry. The Company's paper chemicals are its mainstay items and have a big reputation both in home and foreign markets.

The matter of fact is that Jeong-Weon Chemical are the exclusive supplier of sizing agent for glass-fibre processing in domestic market. The company is planning to expand its business in the field to high value-added chemicals like functional emulsion and flame-retardants.

It believes that only creative technology can satisfy the customers need and open up new markets. Hence, they have invested 5% of their annual sales in Research & Development to realize this belief for decades now. In fact, about 40% of its staff members are working for R&D division including the technical support team. Jeong-Weon Chemical promises its customers that on the basis of their knowledgeable researches it can meet their demands with tailored chemicals to suit the customers purpose. Moreover their veteran professionals can solve customer problems from the store of great experience available with them.

Jeong-Weon Chemical follows a comprehensive quality management system including the R&D in accordance to ISO-9001 in 2000.





The advent of global competition age forced the company to realize that only creative technology is the path to survive. Hence, it concentrated all resources on R&D to gain a victory in war of technical development.

Today it takes pride in having developed all products items by themselves without outside help.

The scope of R&D division can be summarized as following

- Development of new product

Fundamental study and lab-scale work is carried out.

- Pilot-plant tests and trial production

The bench-scale results are examined in pilot-plant for commercial production.

- Technical support for customers

Technical support and troubleshooting can be provided.

The company strives hard to supply high quality products owing to their intensive R&D.





HANKUK PAPER:

Hankuk Paper, established in 1958 is a company specializing in the production of printing and writing paper for more than half a century under the motto of 'Contributing to the cultural development in South Korea through paper'. Based on independent and differentiated technology, Hankuk Paper has produced innovative products that are best described as 'the first' and 'the best'. In 1982, with the application of Korea's first Millenary Paper, Hankuk Paper opened the era of acid-free paper, commonly known as 'Millennium Paper' in South Korea. In 1983, double art paper in which coating solution is applied twice on base paper was produced, elevating the status of domestic art paper.

Since then, through ceaseless research and development, Hankuk Paper launched premium grade, art paper 'X-PRI' in August 2004 as well as matt finish rough gloss paper, 'ARTE' in June 2012, resulting in the quality of domestic printing and writing paper reaching a world-class level. Furthermore, Hankuk Paper has laid a foundation to develop into a global paper production company by taking over specialty paper production plant in China, capable of producing 70,000T of stainless steel, slip sheet, release paper, memo base paper, wallpaper base paper, special packing paper, Tips and others annually. Hankuk Paper that has pioneered the qualitative and functional transformation of papers to meet the demands of various customers is taking a leading role in preserving nature. As the first to

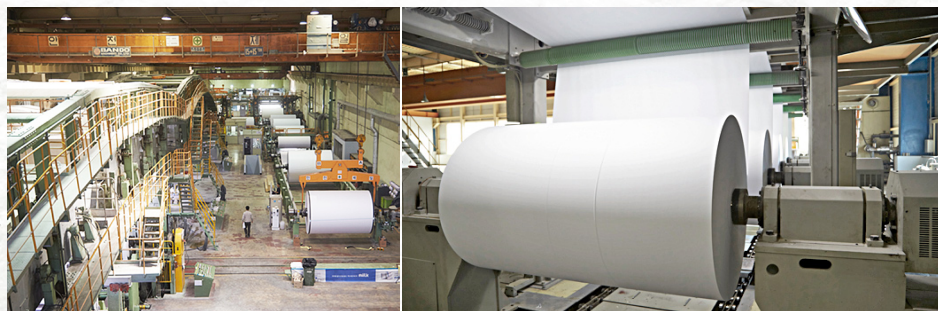




commence a systematic reforestation business in the domestic paper industry, it has managed forests in Gyeongju and Yeosu with area exceeding 18 times that of Yeosido and since 2000, Hankuk Paper is striving to fulfill the social responsibility for preserving the Earth by establishing an environment-friendly management such as reducing energy cost, reducing carbon emission, construction of PCC plant, usage of surplus steam and re-utilizing energy. Hankuk Paper gives you our word that we will develop into a world-class corporate, satisfying customers based on the best technology and quality.



Hankuk Paper has grown to become a market leader by manufacturing competitive products, upgrading paper manufacturing technology in based on independent development and technology. It analyzes the customer demands and materializes customer satisfaction centered on the principle of quality-first, ultimately exceeding customer's expectations. It will continue to lead the industry with the best quality, centered on people by developing and applying technologies for the next generation to benefit from.





MOORIM GROUP

Summary: Moorim has three papermaking companies, Moorim SP (Daegumill), MoorimPaper (Jinjumill), and Moorim P&P (Ulsan mill). Especially, Moorim P&P, as the only company to own both a pulp production and papermaking mill in Korea, it marks a new milestone in the history of Korean papermaking. In 2011, the nation's first integrated pulp and paper mill had been completed. Moorim P&P has created a new paradigm in the history of Korean papermaking through its one-stop manufacturing system expanding from pulp production to paper making.

Company		Moorim P&P		Moorim Paper	Moorim SP
Date of Establishment		January 1974		December 1975	July 1956
Category		Paper	Pulp	Paper	Paper
Production in 2017(t/year)		490,536	437,150	419,705	79,443
Sales in 2017 (t/year)	Domestic	225,692	223,878	205,291	60,162
	Export	262,715	16,034	224,729	17,765
	Total	728,319		430,020	77,927
Main products		Paper -. Label & Flexible Package -. Book & Publishing (Printing & writing) Pulp -Hardwood bleached pulp		Paper -. Packaging Solution -. Graphic Board -. Label & Flexible Package -. Book & Publishing (Printing & writing) -. Specialty Graphics -. Digital Paper -. High Speed Inkjet	Paper -. Packaging Solution -. Label & Flexible Package -. Book & Publishing (Printing & writing) -. Specialty Graphics -. Rough Gloss Graphic -. Industrial & Specialty
Facilities		Paper Line Paper machine 1 ea (8.7m, the largest machine in Korea) Coater 1 ea Basis weight : 80 ~ 180 g/m ² Pulp Line Continuous Digester 1ea Recovery boiler 2 ea		Paper Line Paper machine 3 ea Coater 2 ea Basis weight : 45 ~ 350 g/m ²	Paper Line Paper machine 2 ea Coater 2 ea(1 for CCP) Basis weight : 100 ~ 400 g/m ²



All of Moorim's printing papers are the 'Neo star' brand and the specialty papers are the 'Neo' brand.

Strengths






Eco-friendly management & products

- Moorim's environmental management is implemented from the planning stage. We practice low-carbon green growth based on three major strategies addressing climate change, eco-friendly product development and management, and eco-friendly system operations. These core values are the foundations of our vision as a Global Pulp & Paper Company.



- Moorim acquired Korea's first carbon footprint labeling certification in 2013. Under this eco-labeling program, a responsible institute issues a certification by assessing the amount of carbon dioxide emitted by all of its business activities. Only 0.61 tons of greenhouse gases are emitted from 1 ton of Neo Star Uncoated Paper and only 0.62 tons from 1 ton of Neo Star Matt. Moorim nevertheless strives to emit least greenhouse gases even further.

- Eco-friendly product certificates

Certificates		Products
FSC CoC Certification (Forest Stewardship Council) Moorim Paper, Moorim SP, Moorim P&P had all acquired FSC CoC (The Forest Stewardship Council Chain of Custody) certifications and Moorim P&P received FSC CW (certified wood material; controlled wood). As a result, we are equipped with the system to produce more environmentfriendly products. ·FSC C011933 :Moorim Paper, ·FSC C015965 : Moorim SP, ·FSC C018671 : Moorim P&P ·FSC C018374 :Moorim USA, ·FSC C006970 : Moorim UK		All coated paper Uncoated paper
PREPS (The British Publisher's database for Responsible Environmental Paper Sourcing) 15 major union publishers in the UK manage and distinguish into grades of forest resources and environmental DB related to the book industry. Moorim Paper is registered by PREPS.		Neo star gloss, Neo star snowwhite
Carbon Labeling Moorim Paper had acquired art paper carbon labeling first in Korea from KEITI (Korea Environmental Industry Technology Institute). And Moorim paper has been producing eco-friendly products minimizing carbon dioxide emission.		Neo star gloss, Neo star snowwhite
Korea ECO-LABEL certification Moorim Paper, Moorim SP gained the permission to use the ECO-LABEL from KEITI (Korea Environmental Industry Technology Institute). So Moorim Paper, Moorim SP save resources and minimize emission of pollutants.		Art paper, uncoated paper, MFC paper, Fancy paper
KFCC(Korea Forest Certification Council) Moorim P&P, Moorim Paper, and Moorim SP had all acquired KFCC CoC certifications from KFCC(Korea Forest Certification Council). This certification verifies that the forest is managed in a sustainable mannerwhich preserves the natural ecosystem and provides benefits to thelocal residents and workers' lives with no illegal actions.		All coated paper Uncoated paper

Vertically integrated system,from Plantation to Pulp and Paper Manufacturing

-Moorim has grown in both operation scale and vertical integration system,emerging as a globally competitive Pulp & Paper Company.

MoorimP&P

- . Location: 3-36, ubong-gil, Onsan-eup, Ulju-gun, Ulsan, 45011, Korea
- . CEO : Suk-Man Kim
- . Main Number : 82-52-231-7000
- . Contact person : Seehan Park (seehan@moorim.co.kr)

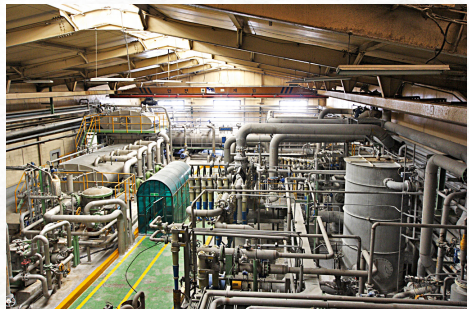
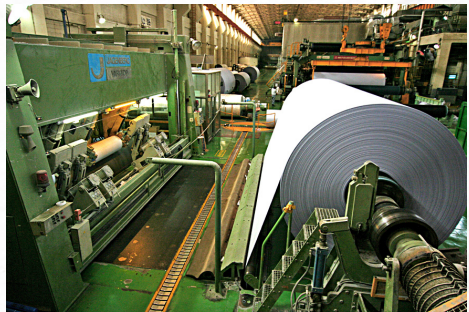


DAEHAN PAPER

Daehan Paper Company, was established in 1959 and has contributed to development by steady expansion of its facilities and as well as by means of initiating new type of papers in order to upgrade the quality. This has resulted in fulfilling the consumer's varied requirements with the help of our accumulated technology due to its relentless R&D and steady investment in technologies and facilities.

Daehan Paper is one of the biggest paper manufacturing companies in Korea and second largest supplier in newspaper industry. The core business model of Daehan paper is on newspaper and printing paper for the major publishing companies in the nation.

The PM3 was recently completed and for which the top notch automation system and on machine coater were introduced. This is a super class paper machine with super velocity which has extraordinary printing ability and it can produce uniform quality products.





Daehan Paper is also investing in right kind of environmental facilities as it is well aware of its responsibility towards preservation of our environment.

Its state of the art DIP manufacturing facilities focuses on reducing pulp and significantly using recycled paper. Daehan Paper is also proud of receiving the good recycled mark from the ministry of knowledge & Economy, and the Korean Environment Industry & Technology.

Newspaper office paper DM commercial catalogues and text –books are some of product generated by them.





JEONJU PAPER

Jeonju Paper is the largest newspaper paper manufacturer in Korea and produces 900,000 tons of newsprint, publication paper, and industrial paper per year, and supplies to most newspapers in Korea as well as in major international markets. Throughout its 50 years of history, Jeonju Paper has served both and overseas customers with the highest quality newsprint.

As Asia's leading newsprint manufacturer, we will continue our excellence by drawing from decades of experience and from our state of the art manufacturing facilities that include the world's largest de-inked pulp facilities and Korea's only mechanical pulp lines.



Location

- Seoul Office:

6th Floor, KCCL Building 39 Sejong-daero Jung-gu Seoul 100-743, Korea

- Jeonju Mill:

59, Palbok-ro, Deokjun-gu, Jeonju-si, Jeorabuk-do 561-723, Korea



1965. 01

Established Seahan Paper



1968. 08

Jeonju Paper



1992. 09

Hansol Paper



1999. 12

Panasia Paper Korea



2006. 01

Norske Skog Korea Co., Ltd



2008. 09

Jeonju Paper Corporation



Jeonju Mill

Is the second largest newsprint mill in the world with an annual capacity of 900,000 metrics tons

Operates the world's largest deinking plant and Korea's only TMP (thermo-mechanical pulp) lines

Employees approximately 440 highly skilled full-time employees, whose average employment at Jeonju Paper exceeds 19 years

Received EFC (Environmentally Friendly Company) designation by the Ministry of Environment of Korea since 1995 .

Products

- Newsprint

Standard Newsprint

Improved Newsprint

Colored Newsprint



- Publication paper

Eco-Textbook/ Study Guides

Eco-Book & Publication

Eco-Standard Document Form

High Quality Publication





KLEANNARA COMPANY LIMITED

Kleannara Company Limited was founded on March 7, 1966 and is headquartered in Seoul, South Korea.

Kleannara Company Limited operates in the Paperboard mills sector

The Paper business produces coated duplex boards with greyback and whiteback, one side coated all pulp board, cup liner, and kraft board.

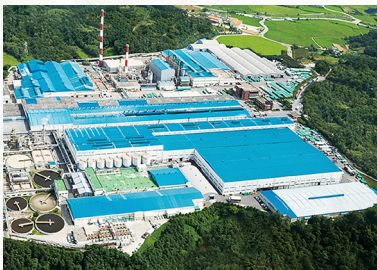
Besides, Kleannara also engages in the manufacture of paper and hygiene products.

The Hygiene business manufactures products such as household goods, baby goods, feminine products, incontinence products, and away from home products such as toilet paper, facial tissue, and liquid soap.

KleanNara believes in delighting customers with innovative brands and products that reflect customer-oriented values and global trends.

Possessed with the technology and know-how it accumulated over a period of several decades, KleanNara has state-of-the-art equipment, a professional workforce, stabilized production and management systems.

With an efficient organizational structure and an extensive global network as well as an advanced management system, Kleannara is reinforcing competency as a specialist in living culture and taking a leadership position in the global paper industry. KleanNara will realize a new and greater vision through their values of truth, change and innovation thereby establishing itself as an indigenous company that confidently competes with multinational corporations





HANSOL PAPER

Hansol Paper Co., Ltd.

23-24F, B-dong, Fine Avenue, 100 Eulji-ro (Eulji-ro 2ga), Jung-gu, Seoul

e-mail: soyoung.shin@hansol.com/+82-2-3287-6230

Year of establishment: 1965

Products

- **Printing & Writing Paper:** Our printing& writing paper business offers premium printing quality and enhanced copier performance to customers. It is most often used in textbooks, catalogues, flyers, brochures and art books.
- **Carton Board:** Our carton board business produces high quality packaging boards from our cutting-edge facilities. Products are categorized into carton board and all-pulp (AP) boards based on their usage.
- **Specialty Paper:** Our specialty paper is a premium line of paper that requires a high level of technicality. It offers premium quality printing paper, fancy paper, functional paper depending on their use.
- **Thermal Paper:** Our thermal paper business produces paper that changes color when exposed to heat, with products ranging from POS receipts and labels to tickets.
- **Sublimation Paper:** Sublimation paper is the paper that enables indirect printing on the textiles and polyester-based substrates that are difficult to print directly. By applying heat to the sublimation paper through heat transfer printer, printed image of the sublimation paper is used for the image transfer for fashion clothing, sports wear and signage. Especially, HansolInket sublimation paper has high transfer density and clear transfer image. Available water-based inks.

Sales figures (based on year 2017)

• Domestic Sales: USD 660 million • Export Sales: USD 703 million • Total Sales: USD 1.36billion

Environment friendly products

- New Uncoated Woodfree Paper • Newplus • Finecoat • Magic Comma
- Encore • Aloe Paper • Jeju Tangerine Paper • Hi-Q DuoMatt



WOLSAN PAPER &TAILIM GROUP

1. Group overview

Paper BU - AnsanMill(Tailim Paper)

- UiryeongMill(Tailim Paper)
- Masan Mill (**Wolsan Paper**)
- JeongeupMill(Dongwon Paper) -

Packaging BU(Tailim Packaging)

- Sihwa Mill
- Pocheon Mill
- Cheongwon Mill
- Masan Mill
- Paju Mill
- Yongin Mill
- Gumi Mill
- Ulsan Mill
- Pyeongtaek Mill

2. Wolsan Paper

No. of Employees	: 110(2016)
Major Production	: Kraft Liner, Corrugated medium, test Liner
Capital	: 2.2million US\$(2016)
Sales	: 105.5 million US\$(2016)
Annual Production	: 445,000tons/1yr(2016)
Factory site	: 61,024m ² / area 24,691m ²
Location	: 62, Gongdanse3-gil, Chilseo-myeon, Haman-gun, Gueongsangnam-do, Korea
Tel	: (+82)55.586.6000 FAX.(+82)55.586.6002
Sales Tel	: (+82)31.491.0010(161) / Fax : (+82)31.491.0023
E-mail	: marcuswi@tailim.com



Company History

- 1999.04 Muhak paper acquisition 300ton/day
- 2000.05 Developed dryer part 450ton/day
- 2001.08 On top wire constructed 600ton/day
- 2002.05 MB former constructed 850ton/day
- 2003.07 Acquired ISO 9001
- 2006.08 Developed calender& dryer part 1,000ton/day
- 2008.05 Modified double shoe press 1,200ton/day
- 2013.12 Developed middle ply wire part 1,300ton/day
- 2017.11 Acquired weather management certificate





TAILIM

INTRODUCTION 2017



TOTAL PACKAGING





MESSAGE FROM THE CEO



Tailim Packaging is a total packaging company that manufactures paper and packaging products for our everyday needs. These range from liner paper to packaging boxes for agricultural products, electric home appliances, such as TVs and refrigerators, and door-to-door delivery products. The company has twelve manufacturing facilities across the country, including four paper mills and eight packaging mills. With a vertical integration of manufacturing facilities for paper and packaging, it is maximizing the synergy and competitiveness of each business.

Tailim Packaging is the No.1 total packaging company in Korea. In the paper business, the company produces 1.2 million tons of base paper for packaging per year ranging from high-strength Kraft liner boards (KLBs) to corrugated medium paper (CMP) and test liner, accounting for a 22.5% market share of the domestic market.

In the packaging sector, Tailim is an industry leader with a 23% market share, producing 1.2 billion square meters of various packaging boxes and corrugated boards per year including the nation's only octagonal and dodecagonal boxes. In particular, corrugated paper which are produced from recycled paper, preserve a high public value as they save natural resources and help protect the environment.

Tailim Packaging has a vision to achieve 30% in its market share and KRW 1.2 trillion in sales by year 2020. To this end, Tailim will advance from the industrial packaging market into the household goods packaging market; expand its markets with a variety of functional packaging products through collaborations with other industries; and broaden its business territories to other packaging materials.

The packing business will continue to thrive as long as the transport of goods exists. And as long as the packaging business exists, Tailim, specializes in total packaging, will grow with you together. Thank you.

President and CEO. Kim Young-sik



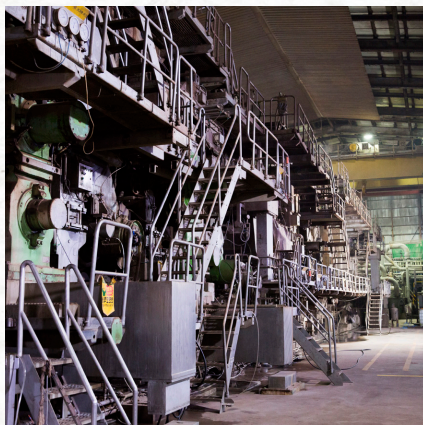
BRIEF HISTORY



1976.04.12	Established Tailim Packaging Ind.	2001.08.11	Acquired ISO 9001:2000 certification
1981.04.16	Mill #1 at Banwol Industrial Complex started to operate	2001.09.23	Cheongwon Mill started to operate
1984.06.16	Mill #2 at Banwol Industrial Complex started to operate	2004.02.11	Uiryeong Mill started to operate
1986.09.16	Established Dongil Paper	2005.05.17	Acquired ISO 14001 certification
1988.12.03	Tailim Packaging Ind. Initial public offering	2008.02.15	Yongin Mill started to operate
1990.02.15	1st. Additional construction (product capacity 350M/T per day)	2008.12.10	Curtain Coater installtion
1991.11.25	2nd. Additional construction (product capacity 450M/T per day)	2010.05.29	Jeongeup Mill started to operate
1993.11.05	3rd. Additional construction (product capacity 550M/T per day)	2011.06.10	Masan 2Mill started to operate
1993.12.15	Mill #3 at Sihwa Industrial Complex started to operate	2012.11.15	Ulsan Mill started to operate
1995.07.03	Dongil Paper Initial public offering	2014.10.13	Paju Mill started to operate
1996.12.08	Acquired ISO 9001 certification	2015.07.09	IMM PE take over Tailim Group (Packaging, Paper)
1996.12.19	Patent high-strength liner board		CEO Young Sik Kim inaugurated
1999.04.13	Masan 1Mill started to operate	2016.04.01	Company name change Tailim Packaging Ind. ▶ Tailim Packaging Dongil Paper ▶ Tailim Paper
1999.09.01	Gumi Mill started to operate		Wolsan ▶ Wolsan Paper
1999.12.22	Acquired GR certification for outer packaging	2016.09.06	Environment Minister Awards on the Resource Recirculation Day
2001.05.01	Pocheon Mill started to operate	2016.11.11	Industry Minister Awards to the Contributors to Developing Paper Industry
2001.05.28	Sihwa Mill acquired Single PPM certification		Executive Director Dong-woo Lee of Tailim Paper
			Executive Director Jong-sik Park of Tailim Packaging



OVERVIEW



PAPER

Paper Business Unit(BU) produces various liner products such as Kraft liner, Corrugated medium, and test liner from specialized 4 paper mills located in Ansan, Uijeong, Masan, and Jeongeup.

Specialized products of each paper mill ; 1.2million m²/year

Ansan Mill	Kraft Liner / Jute Liner
	Annual Production 280,000 tons
Uiryeong Mill	Test Liner
	Annual Production 250,000 tons
Masan Mill	Kraft Liner / Jute Liner
	Annual Production 420,000 tons
Jeongeup Mill	Core Board
	Annual Production 250,000 tons

PACKAGING

The Packaging Business Unit(BU) mills are located at Sihwa and 7 other cities in Korea. The nationwide mills' network with 9 corrugators and 47 Box converting machines enables on time delivery and differentiated service.

8 Packaging mills with 9 Corrugators and 47 Box converting machines ; 1.2billion m²/year

Sihwa Mill	Corrugator	2
	Box converting machine	10
Paju Mill	Corrugator	1
	Box converting machine	3
Pocheon Mill	Corrugator	1
	Box converting machine	4
Cheongwon Mill	Corrugator	2
	Box converting machine	9
Yongin Mill	Corrugator	1
	Box converting machine	4
Masan Mill	Corrugator	1
	Box converting machine	7
Gumi Mill	Corrugator	1
	Box converting machine	7
Ulsan Mill	Box converting machine	3



VISION

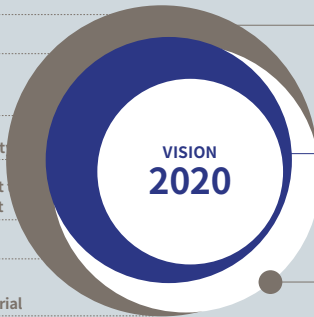
TAILIM VISION 2020

- ▶ Full Production & Full Sales system
- ▶ Products Specialization by mill
- ▶ Competitive Brand Positioning with Strong reputation for quality
- ▶ Seek overseas expansion opportunity
- ▶ Expand Industrial packaging market
Daily life oriented packaging market
- ▶ Propel Horizontal Growth
- ▶ Develop high value added/
functional packaging paper & material

Revenue 1.2 trillion

EBITDA 110 billion

MS 30%

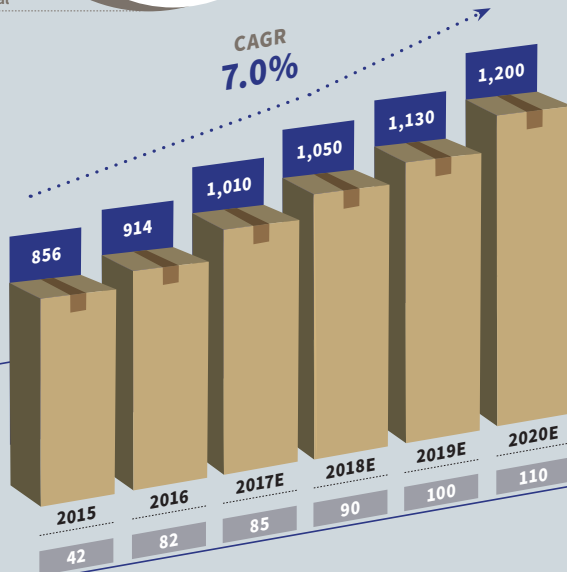


CAGR
7.0%

REVENUE

(Unit: Billion KRW)

EBITDA





PRODUCTS

Paper

Exterior corrugated base board for boxes packaging electronic, industrial and agricultural products The liner boards are divided into Kraft Liner, Jute Liner, Test Liner depending on materials and production methods.

PRODUCT STRUCTURE(3PLY ATTACH PAPER)

The corrugated board is divided into plate type Liner and Test Liner, and corrugated medium to make the corrugated.

The product is lined with three layers of top, middle and bottom, and the type of paper is determined according to the raw material composition and density of each layer.



Kraft Liner(KLB)

Kraft liner is a multi-ply liner which made only from pulp or AOCC(imported waste paper), and is the highest quality paper for corrugated boards.

Jute Liner(SK/WL)

Jute liner is a paper whose top-ply is mainly made from pulp or pulp-colored material under which recycled waste paper is used.

Test Liner(K/KT/B)

Test liner is used as either bottom liner or corrugated medium, and is produced by 100% domestic waste paper. KT160g is recommended as a replacement for K180g.

Super Calendered Liner (SC)

The liner is white top liner produced with multi-layer curtain system which gives an excellent coverage to increase printability. The curtain coating is cheaper, cleaner and more effective than the bleached fibers to make white top liner. It is mainly used for the luxury agro-box and the industrial box in the preprinter printing method.

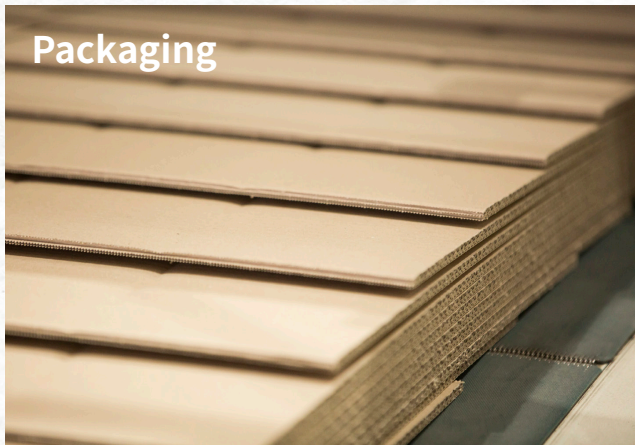
Corrugated Medium Paper(S/KS)

Corrugated medium, along with liner paper, is put inside the corrugated board. Thanks to its wavy ridges, the medium can heighten compressive strength of the corrugated board, thereby protecting products safely. Particularly, KS110g is recommended as a replacement of S120g.



PRODUCTS

Packaging



TAILIM-8 BOX

Tailim-8 box contributes added value creation for customers by outstanding compressive strength and cost reduction compared to conventional boxes.

Raw material reduction./Increase in space utilization./Wide utilization/
Increased corner strength./Up to 50% increase in compressive strength

TAILIM-12 TRAY

The Tailim-12 tray is new type of trays that maintains automatic box making and area saving effect as well as improves weak compressive strength and moisture vulnerability. Moreover, it is in line with eco-friendly policy by using the low gsm and high strength base paper, and it is a groundbreaking tray beneficial to both consumers and producers by creating raw material saving effect.

Automatic box making/
Low gsm and high strength base paper/
Pre-printable./Area saving/
Increase compressive strength

TAILIM-HP BOX

Adhering reinforced tape during production process of corrugated boards and boxes reinforces package performance, score line and easy opening function. It is possible to produce high quality products by quality design in such innovative method different from existing methods as well as to save box cost and to develop new market.

Safe transportation./Reinforced packaging performance./Reinforced grips./
Safe transformation./Protects Contents

Specialized Paper Tape Opening Box

The heavy duty box is produced with built-in specialized paper tape reinforced for product packaging such as refrigerator, washing machine, large TV and air-conditioner. Since it is under no risk of scratch by stitched pins during packaging, there is no need to use scratch protective corner pads.

Laminate Box

Possible to save cost by 20~50% compared to conventional offset color boxes.(Die-cutting process can be eliminated and printing and varnish coating can be reduced.)

- Able to promptly ship small volume and multiple models by introducing the automatic label maker.
- Beautiful appearance by fully integrated box production.

Flexographic Box

Full color flexographic printing with the advantages of offset printing. It is capable of fine printing through the primary color separation and 80 dpi half dot printing.

- Extraordinary printing protection (water and scratch proof) and design effect by coating treatment (UV and aqueous) on the box surface.
- Better for small volume and multiple models than the preprinting method.
- Maximum printing size : 1,600mm X 1,100mm

Self-Assembly Box

Able to design attractive and innovative packaging to provide not only display effects at the point of sales but also protection for fragile products such as clocks, thermometers.

- High printing quality allows detailed product descriptions to be printed on the rear side of packaging.
- Easy to assemble and store boxes.

Customized box

Satisfying various customer requirements.

- Usable as a Styrofoam alternative eco-friendly
- Separating accessories / anti-shock

Heavy Duty Box

The large sized box is produced in a single sheet board for refrigerator, washing machine, large TV and air-conditioner, which provides attractive appearance and is easy to package contents.

- Maximum corrugated board feed size
4,500mm X 2,500mm



PRODUCTION SITES & CAPACITY

- 1 Tailim Packaging
- 2 Tailim Paper
- 3 Wolsan Paper
- 4 Dongwon Paper

1 Paju Annual Production **150**

1 Sihwa Annual Production **250**

2 Ansan Annual Production **270**

1 Yongin Annual Production **150**

4 Jeongeup Annual Production **240**

2 Uiryeong Annual Production **240**

1 Pocheon Annual Production **110**

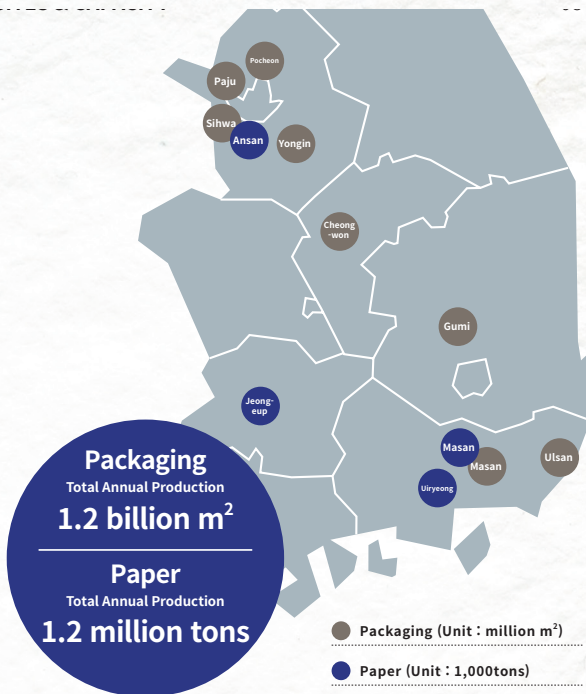
1 Cheongwon Annual Production **250**

1 Gumi Annual Production **150**

1 Ulsan Annual Production **20**

3 Masan Annual Production **450**

1 Masan2 Annual Production **120**



Business address

PAPER

Ansan Mill	104, Hae-an-ro, Danwon-gu, Ansan-si, Gyeonggi-do, Korea	T. 82 31 491 0010
Uiryeong Mill	39, Guryong-ro 1-gil, Uiryeong-eup, Uiryeong-gun, Gyeongsangnam-do, Korea	T. 82 55 572 3020
Masan Mill	62, Gongdanseo 3-gil, Chilseo-myeon, Haman-gun, Gyeongsangnam-do, Korea	T. 82 55 586 6000
Jeongeup Mill	50, Gongdan 1-gil, Jeongeup-si, Jeollabuk-do, Korea	T. 82 63 536 8811

PackaGing

Sihwa Mill	74, Gongdan 1-daero 379beon-gil, Siheung-si, Gyeonggi-do, Korea	T. 82 31 499 3333
Pocheon Mill	46, Pocheon-ro 898beon-gil, Gasan-myeon, Pocheon-si, Gyeonggi-do, Korea	T. 82 31 541 0788
Gumi Mill	142, 1gongdan-ro 10-gil, Gumi-si, Gyeongsangbuk-do, Korea	T. 82 54 465 9999
Yongin Mill	38, Cheonggye-ro, Baegam-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea	T. 82 31 335 1000
Ulsan Mill	127, Hwalcheonsaneop 1-gil, Duseo-myeon, Ulsu-gun, Ulsan, Korea	T. 82 52 255 9999
Cheongwon Mill	56-12, Dureungyuri-ro, Ochang-eup, Cheongwon-gun Cheongju-si, Chungcheongbuk-do, Korea	T. 82 43 212 1100
Masan Mill	59, Gongdanseo 3-gil, Chilseo-myeon, Haman-gun, Gyeongsangnam-do, Korea	T. 82 55 589 3333
Paju Mill	77, Donyu 2-ro, Munsan-eup, Paju-si, Gyeonggi-do, Korea	T. 82 31 945 3333



ENVIRONMENTAL MANAGEMENT

**Tailim
has taken
the lead in
eco - friendly
system**



Tailim environmental management activity

Tailim Group is actively involved in environmental management through ISO 14001 and FSC COC certification. Through the greenhouse gas inventory, we systematically reduce greenhouse gas emissions and control the use of fossil fuels through the recycling of waste.

We are also taking the lead in protecting the environment by reducing the use of electric power energy by investing in high efficiency facilities.

In addition, 4~5,000 tons of sludge generated annually is recycled as fuel for steam production by introducing drying facilities. As a result, we made zero emissions of sludge into the ocean, reduced greenhouse gases, and won recognition from the Minister of the Environment for the 2016 resource recycling day.

The Tailim Group carries out environmental protection activities around the plant every month through joint public environmental protection events and its own environmental day events. In addition to production, we are also taking the lead in protecting the local environment.





KNOW THE DELEGATION



Kirit Patel, *CMD*

ASTRON PAPER AND BOARD MILLS LTD.

Kuldeep Kumar, *Dy. Manager*

CENTURY PULP & PAPER



Munish Bhardwaj, *D.G.M.*

CENTURY PULP & PAPER

Rajiv Govindarajan, *Director*

CHOLAN PAPER AND BOARD MILLS LTD.





KNOW THE DELEGATION

Rajesh Kumar Jain, *Director*
GARG DUPLEX & PAPER MILLS (P) LTD.



N. Murali, *Head - Prod.*
ITC LIMITED, UNIT: KOVAI

T. R. Subramaniam, *Head - Quality Pillar*
ITC LIMITED, UNIT: KOVAI



M. N. Bhat, *CGM (Process)*
JK PAPERS LTD, UNIT: CPM



KNOW THE DELEGATION

Rajni Patel, *CMD*
JMC PAPERTECH PVT. LTD.



Mayank Suthar, *Director*
JMC PAPERTECH PVT. LTD.

Pawan Agarwal, *MD*
NAINI GROUP OF INDUSTRIES



Dinesh Garg, *Director*
RAMJI BOARD AND PAPER MILL PVT. LTD.



KNOW THE DELEGATION

Ganesh Bhadti, V.P. (Tech)

SESHASAYEE PAPER & BOARDS LTD.



M. Moorthi, Officer (PM/c)

SESHASAYEE PAPER & BOARDS LTD.

V. Sundaresan, V. P.

SESHASAYEE PAPER & BOARDS LTD.



Varun Agarwal, Director

SHREE GAJANAN PAPER & BOARDS PVT. LTD.



KNOW THE DELEGATION



Gyan Prakash Gupta, *Director Technical*
SHREE GAJANAN PAPER & BOARDS PVT. LTD.

Ashok Kumar Goyal, *President*
SHREYANS INDUSTRIES LTD.



Anil Kumar, *ED & CEO*
SHREYANS INDUSTRIES LTD.

Vineet Kumar Sangal, *Director*
SIDHESHWARI PAPER UDYOG PVT. LTD.





KNOW THE DELEGATION

Prasoon Agarwal, *Director*
SILVERTOAN PAPERS LTD.



Amit Garg, *Whole time Director & CFO*
SILVERTOAN PAPERS LTD.

R. Krishnaswamy, *CMD*
SRIPATHI PAPER AND BOARDS PVT. LTD.



Abhinav Agarwal, *Director*
TIRUPATI BALAJI FBERS LTD.



KNOW THE DELEGATION

R. Subash Chandru, *MD*
VENKRAFT PAPER MILLS PVT. LTD.



Vikas Jain, *Director*
VISHWAKARMA PAPER & BOARDS LTD.

Devesh Khaitan, *ED*
WIRES & FABRIKS (SA) LTD.



Narendra Agrawal, *Director (Works)*
YASH PAPERS LTD.



KNOW THE DELEGATION

Ajay Kapoor, *Director*
MEENU PAPER MILLS PVT. LTD.



M. K. Goyal, *Secretary General*
IPPTA



Profile of Delegates



ASTRON PAPER AND BOARD MILL LTD.

Kirit G. Patel, aged 45 years, is the Promoter, Chairman and Managing Director of Company. He has been on the Board of Directors of Company since its incorporation. He holds a Bachelor's degree in Commerce from Gujarat University. He has over 2 (two) decades of work experience in the trading and paper packaging industry. Under his visionary leadership, Company has been achieved many milestone since its inception. He is currently responsible for the management of the entire operations of the Company, including strategic initiatives of our business.



Incorporated in 2010, **Astron Paper and Board Mill Limited** is engaged in manufacturing of kraft paper. Within a short span of time, Company has developed a name for itself in kraft paper industry and Company have been able to establish a brand associated with qualitative and comprehensive range of kraft papers. Company mainly cater to packaging industry and have been able to develop a loyal clientele network consisting of various packaging companies and MNCs Currently operating in domestic markets with products being supplied on PAN India basis. Company is also in the process of exploring export markets, currently export market contributing 13 % of the total sales of the Company. Astron Paper is one of the major kraft paper manufacturers in Gujarat with its manufacturing facility having an installed capacity of 153000 mt p.a. Manufacturing facility is situated at Halvad and Bhuj, Gujarat and is well equipped with requisite plant and machineries and other facilities. Company also have in house testing laboratory for quality control checks and testing of its products. Company endeavour to maintain safety in its premises by adhering to key safety norms. Manufacturing and





dispatch process has been assessed and certified as meeting the requirements of ISO 9001: 2015, ISO 14001: 2015 by an international organisation viz. SGS United Kingdom Ltd. With increasing environmental awareness, Company has since its inception adopted the use of waste paper as raw material instead of traditional usage of wood. The process of manufacturing Kraft paper involves recycling of waste paper and with many organisations, now supporting the Go Green Campaign, it increases the demand of FSC certified Kraft paper as the same is eco friendly. Company have been environmentally conscious and its products have been certified as meeting relevant FSC Standards since 2014 by SGS South Africa (Pty) Ltd.

Product Kraft paper is used by packaging industry for manufacturing corrugated boxes and liners, corrugated sacks and composite containers. Company offer various products like High RCT, Kraft Liner, Liner to Corrugated Medium Paper, ranging mainly from 80 GSM to 350 GSM and 16-40 BF. Company endeavor to serve its customers, each having different requirements of Ring Crust test (RCT), Gram square meter (GSM) and weight pressure. Company mainly imports raw material for ensuring better quality of output. Astron Paper have also been accredited with Authorised Economic Operator- T1 Certificate (Importer and Exporter) which provides certain benefits in relation to imports and helps in cost savings.

Company is promoted by Kirit G. Patel, Ramakant Patel, Karshanbhai Patel and Asian Granito (India) Limited. Individual Promoters manage and control the major affairs of the business operations. With their dedication and commitment, Company has shown an increasing trend in our business operations which is evidenced by the growth in total income from Rs. 267.27 million in FY 2012-13 to Rs. 2537.03 million in FY 2017-18. During current FY, Company also acquired Balaram Papers Pvt Ltd, (Located at Mehsana, Gujarat) as wholly own subsidiary Company. Company believe that its market position has been achieved by adherence to the vision of its Promoters and senior management and their experience.

Registered office is situated at Ahmedabad. Company have a dedicated marketing team who continuously interacts with customers to understand their requirements and analyze the market dynamics. Company have also been actively participating and associated with the Federation of Corrugated Box Manufacturers of India and Indian Corrugated Case Manufacturers Association. Company aim to establish its brand as a distinguished name in industry.



CENTURY PULP & PAPER

Kuldeep Kumar is Diploma in Mechanical Engineering from UPTeB, Lucknow and B. Tech Mechanical from Rajasthan. He has 22 years of experience in Chemical & Paper Industries engineering as well Paper manufacturing processes, besides he also has good knowledge on paper machine projects and Re-building projects execution. Presently he is heading the 100 TPD tissue plant as Dy. Manager (Engg & Process), Current working profile is to produce premium grade Tissue paper with international standards at minimum productive cost, he is Continuously working to develop new products, cost saving initiatives, best maintenance practices, Kuldeep Kumar is always striving to Improving & achieving targeted productivity and profitability.



Kuldeep Kumar

Munish is Post Graduate Diploma in Pulp & Paper Technology from University of Roorkee, having 25 years of experience in Paper Industries. Having experience of production, process / product development and Team Management. Presently he is heading the Board plant of 620 TPD capacity as DGM-Process. He is also experienced on Off-line Air knife coater, Off-line Blade coater, online wood free coated high speed paper machine and multi-layer packaging board machine. Munish is extensively skilled in exploring and developing new products, cost cutting measures, accelerating growth & achieving desired production and profitability goals.



Munish Bhardwaj





Century Pulp and Paper is unit of Century Textiles & Industries Ltd and a member of B K Birla group of companies. Century's rayon and paper grade pulp, writing & printing paper unit were established in 1984 at Lalkua, near Nainital in the state of Uttarakhand. Its second paper unit based on bagasse manufacturing established in 1995, followed by recycle plant in 2004. The company also has a prime grade tissue paper plant, Fiber line with 1.65 lakh tonnes per annum capacity and multilayer packaging board plant with the capacity of 1.8 lakh tonnes per annum.

Presently production capacities have risen to 4.5 lakh tonnes per annum with the turnover of 2100 Crore per annum. Our product range includes Rayon Grade Pulp, Wood based paper, Bagasse based paper, waste paper (DIP based), Tissue and multilayer board. The company is a pioneer in bagasse based paper manufacturing throughout the country as well as producing Tissue and Board quality to match international standards.

Century Pulp fulfils its 95% power requirement by in house generation with two of TG sets running on renewable energy.

CPP is also only Pulp & paper unit in India, manufacturing a wide range products qualities like Paper, Dissolving / Paper grade Pulp, Writing Printing Paper, Tissue Paper and Multilayer packaging Board using various type of raw material like wood, bagasse and waste paper at a single location.

Century is growing with a planned expansion in Paper, Board and Tissue.





CHOLAN PAPER AND BOARD MILLS LIMITED

Rajiv Govindarajan 28 years of age, is a Bachelor of Business Administration, University of Nottingham, U.K, Graduate from United Kingdom with 8 Years of business experience in paper Industry. He is a Director of the company and is looking after overall operations of the company. He has rich and varied experience in Management and looks to take the company to a greater height.



Rajiv Govindarajan

Cholan Paper and Board Mills Limited was established in the year 1989, in Tamilnadu, India, for manufacturing writing and printing paper adopting 100% Recycling Technology, an Eco friendly process. The final products are mainly used for Manufacturing School Note Books, Printed books and for various other printing applications. The company is promoted by Mr.A.R.M.Govindarajan, a graduate in production Engineering having the requisite managerial and professional skills acquired during his long stint in the industry and he is assisted by a team of skilled professionals.





GARG DUPLEX AND PAPER MILLS PVT. LTD.

Rajesh Jain as a B.A. (Mkt. Ind.) from Delhi University, Delhi, and is a Director in the following Industries:

Garg Duplex & Paper Mills Pvt.Ltd., Muzaffarnagar

Silverton Pulp & Papers Pvt.Ltd., Muzaffarnagar

Aroma Kraft & Tissued Pvt.Ltd., Roorkee

Shreesanmati Auto Experts Pvt.Ltd., Muzaffarnagar
(Dealership of Hyundai)



Rajesh Jain

Besides he is associated with various other social organizations.

Garg Duplex And Paper Mills Pvt. Ltd. is a registered Pvt. Ltd. Company with its Registered Office and works situated at 8.5 Km. Bhopa Road, Muzaffarnagar (U.P.) 251001. The Company has incorporated as on 16.10.1985 and has an installed plant capacity of 300 MTPD.





The commercial production of Garg Duplex And Paper Mills started in year 1989. Currently the Company is manufacturing the Kraft Paper 250 MTPD by utilizing waste paper as raw material. During the Last financial year the Company achieved a turnover of Rs. 156.54 Crores with a Net Profit is Rs.7.27 Crore.

The Company has two Directors at present Mr. Rajesh Jain and Mr. Rajeev Jain who belong to a reputed family. Both the Directors are well experienced in the workings of paper industry.





ITC LIMITED, Unit: Kovai

N R Murali, ITC PSPD is currently working with ITC Ltd., one of the largest pulp & Paper Board Mill in India and has 30 years vast experience in Pulp & Paper Board mill. He has Worked in different units of ITC Ltd. both at Bhadrachalam and Coimbatore. Presently he is the Head of Production of Unit: Kovai.

He has worked on different machines where Liquid packing board, Folding box board, Kraft Paper and recycled white line chip board etc. are manufactured. Besides he has also Worked on several machine re builds, like online coating, dilution head box, soft nip calendar, calcoil, centri cleaners, wire table, steam and condensate and many more. Black belt holder in six sigma, where these tools are used to maintain sustainable quality and best machine run ability.



N. R. Murali

T.R. Subramanaim, is a Graduate in Pulp and Paper Technology, having 27 years of work experience in various paper mills. Currently working as Head Quality in ITC Limited PSPD, Unit Kovai with Exposure to both Paper Making and Board Making Technology, Printing and Conversion Operations. In Current role he is responsible for over all Quality Assurance and Product Development activities, Responsible for implementing FSC COC standards in the capacity of MR. Specialist and member of Core Team for TPM (Lean Manufacturing System) implementation in mill. Certified Black Belt holder from ISI Kolkata, have guided successful focussed Improvement projects.



T. R. Subramanaim

ITC are the largest manufacturers of Packaging and Graphic Boards in South Asia accompanied by a diverse range of Specialty Papers and Boards fulfilling a variety of needs. The bandwidth of products has increased continuously and moved up on the Value-Quality scale and today represents one of the preferred set of choices for any



discerning global customer, seeking a more effective medium to present, pack and protect content or products in a world overloaded with messages.

Strongly market driven, the focus is on Value Addition, New Product Development, Quality Enhancement and Sustainability backed by a Marketing and Technical team with the capability to constantly enrich relationships and deliver ever increasing satisfaction levels.

ITC PSPD is has an integrated pulp and paper board capacity of 1 Million tons per annum with 4 manufacturing units at spread across different locations in India

The Bhadrachalam unit has an integrated pulp mill (Chemical pulping & BCTMP) having a facility of manufacturing Virgin grade paper boards, writing & Printing paper and MG poster with a total capacity of 7 Lakh tons per annum of which 1.6 Lakh Tons is Paper and 5.4 Lakh tons is Paper board.

The Kovai Unit has a capacity of 1.1 Lakh tons recycled white line chip board, Unit Tribeni having Capacity of 0.5 Lakh tons has a Fifty-year tradition of specialty papermaking, with a diverse range of Industrial and Fine Papers (Cigarette & Décor paper), while Bollaram unit is a poly extrusion plant and makes Poly Extrusion Coated Boards.





JK PAPER LIMITED, UNIT: CPM

M. N. Bhat is a graduate paper technologist from Karnataka University. The institution situated at Dandeli Karnataka. He went on to complete his post graduation Diploma from All India Management Association. Having started his career in the year 1982 he is presently working with J K Paper Ltd CPM unit as chief general manager production(process) looking after pulp, recovery, paper and board machines. During this period at CPM has been able to revive paper section by increasing production and introducing many new products like envelope paper, carrybag paper, index paper, higher gsm paper upto 200 gsm and many more.



M. N. Bhat

Widely travelled he had the opportunity to visit countries like, Switzerland, Finland, Germany, Malaysia, Arabian countries, Srilanka and China.

JK Paper Limited, Unit: CPM is part of JK Organization (Eastern Zone), a well-established business house having turnover of more than Rs. 26000 Crores and having diversified businesses such as Paper, Tyre, Cement, Transmission systems, Dairy, Agri-genetics, Education and Defence Electronics .

JK Paper Limited is one of the major players in Paper Industry having a turnover of Rs. 3069.68 Crores (Gross sales for FY 2017-18) with net profit up 60% over previous year's. It has two large integrated paper manufacturing units – JK Paper





Mills, Rayagada, Odisha, East India and Central Pulp Mills, Songadh, Gujarat, West India with a combined capacity of 4,55,000 TPA. It is the market leader in Branded Copier paper segment and among the top two players in Coated Paper and High-End Packaging Boards. Recently JK Paper has taken over Sirpur Paper Mills and is in the process of reviving the same.

CPM, a unit of JK Paper Limited is one of the largest and integrated Pulp & Paper Mills in Gujarat with a capacity to manufacture 55000 TPA of writing and printing paper and 90,000 TPA of premium quality Packaging Board. The mill is located at Fort Songadh, 80 kms away from Surat on NH-6. The total manufacturing capacity of the plant is 145,000 TPA of Paper and Pakaging Board. The unit is in the process of increasing pulp capacity from 60000 Mt/a to 145000 MT/A and board production from 90000 MT/A to 250000 MT/A.

JKPaper, three years back invested about \$ 280 million in expanding and modernizing its plant at JK Paper Mills Rayagada, Odisha. Management had given clean slate to the project team to establish new technologies. The new project at Rayagda location maintains JK paper's emphasis on Sustainability and minimal consumption of natural resources. It involved state-of-the-art machines with 1, 65,000 TPA of





paper capacity and a pulp mill with 2,15,000 TPA, with efficient Power and Recovery Boilers 55MW Cogeneration power plant. This has significantly reduced water and energy usage.

Reel and Pallet handling is completely automated. Robots are being used to palletize the A4 Cartons.

Milestones

- First Indian paper company to get TPM Certification in 2017 from JIPM, Japan.
- First Indian Paper Mill to get ISO 9001 & ISO 14001. Also obtained OHSAS 18001
- First Indian Paper Mill to Invest in World class Pulp Mill (Fibre line from Metso)
- First to Brand copier Paper in Indian Market
- First Indian paper mill to install Pet Coke plant & methanol plant

The company has two manufacturing units- at Rayagada (Orissa) and at Fort Songadh, Dist. Tapi (Gujarat). The total manufacturing capacity of both the units is 455000 MT. JK Paper Limited is market leader in copier segment of Paper and its brands are well established in the market





JMC PAPERTECH PVT LTD

Rajni Patel is Chairman Cum Managing Director of JMC Papertech Pvt. Ltd. Visionary and dynamic Leader of JMC Team, he is a Diploma holder in Fabrication Technology from Sir BPTI, Bhavnagar(Guj.), With his Vast experience of Marketing he helped JMC to always attain new Horizon of success in Global and Domestic markets. Together with his good knowledge of all manufacturing Processes used to make the Paper machinery which helped in giving different identity and superior status by adopting latest technology in comparison to other players in the same segment of Paper Plant and machinery in India. He had also served as a member of American Welding Society (USA). With over two decades of experience in handling Marketing, production, purchase and administration and factory related matters he is apt in team building and creating an energetic working atmosphere in the organization.



Rajni Patel

Maynak. A Suthar is Executive Director of JMC Papertech Pvt Ltd, A Diploma holder in Mechanical Engineering from Sir BPTI, Bhavnagar (Gujurat), He has a working experience of 28 years in the field of Paper Mill machinery manufacturing. With a three decade of working knowledge of handling production from floor level, Plant and machinery Estimation and costing, Increasing productivity to stabilizing product cost without effecting quality to meet today's challenge, he also experienced in day to day factory and office related matters. His Involvement includes assisting CMD in the field of Marketing in Export and Domestic Markets. Besides, he provides support and guidance to the design department in respect to designing of machinery with the onus to meet demand of current market including liaison with technical team of clients. Maynak Suthar also keeps himself updated with knowledge about paper making process.



Mayank Suthar



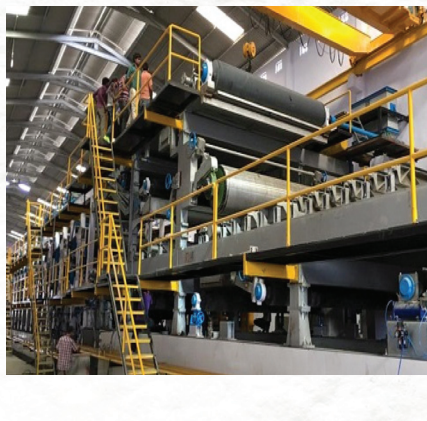
JMC Papertech Pvt Ltd is an ISO 9001:2015 certified manufacturer cum Exporter of Pulp & Paper mill plant & machinery. Our factories are located at a well-established prime location in an Industrial Area at G.I.D.C., SANAND-II, Dist- Ahmedabad (Gujarat), India since 17 years. Our main activities are Designing and Manufacturing of Pulp and paper Mill machinery and its parts to cater Domestic and Overseas market need.



JMC group is promoted by group of experienced industrialist and Technocrats with successful track record and reputation. The company was incorporated in 2002 to set up a most advanced composite engineering unit equipped with sophisticated equipment using state of art technology for machinery manufacturing and fabrication works of Paper plants and Heavy fabrication & precision machining giving it a competitive edge in this age of globalization.



Today JMC plays a highly proficient role in pulp and paper making technology and promoting procession and quality in the development and manufacturing of the sophisticated products. We provide complete solution for Paper Industry under one roof. Currently, we are supplying two projects of four wire paper machine to produce FBB and Cup stock, besides we are working on one soft tissue machine which we shall be exporting to one of our existing client. We have taken steps towards improvement of quality control measures to make our final products at par with the very best worldwide.



JMC Paper Tech has gained two prestigious awards...It has received "Glory of India International Award" for Exemplary Export and "Great Achiever of Industrial Excellence award".

We have an engineering team of highly qualified technical personnel having long and varied experience with leading paper machine manufactures in India and Abroad.

They represent rich skills in process, mechanical and instrumental disciplines. Our engineering infrastructure includes Computer Aided Design & Drafting workstation and in-house developed software for generating flow sheets, manufacturing drawing, P & I diagrams & Bills of Materials with speed and accuracy.

JMC Papertech undertake design, manufacturing, supply, erection and commissioning of new, Pulp mill & Paper Machines and also the modernization of existing pulp mill and Paper machines .JMC has the necessary capabilities in project engineering, design, manufacturing and project management to take up assignments on a turnkey basis.



As the customer is at the core of JMC's Business philosophy, all our resources are focused on adding value for our customers through our total systems capability.

Our expertise lies in applying state-of-the-art technology to provide cost effective custom-designed solutions to suit the varied needs of our valued customers.





NAINI GROUP OF INDUSTRIES

Pawan Agarwal is the Managing Director of Naini Group and has been the prime author of its success story. He completed his B.Tech. in Electrical Engineering from Institute of Engineering & Technology Lucknow in the year 1993 with excellence. After 14 years of successful career in industry, he joined Indian Institute of Foreign Trade in 2007 to complete his Executive Post Graduate Diploma in International Business in 2009.

He has served the industry and society in various capacities. He is currently the President of Indian Pulp & Paper Technical Association (IPPTA) for a period of 2 years from 2017 to 2019. Besides he is also holding the post of Chairman, Paper Unit Chapter of KGCCI, an association of paper mills of Uttarakhand.

Pawan Agarwal is a Member of “Cess Committee for Pulp & Paper Industry” in DIPP, Ministry of Commerce, Govt. of India. He is currently District WinS Chair of Rotray District 3110.

His passion for adopting environment friendly processes is such that he has been credited for employing many such path-breaking technologies in his paper mills.

He has also created first-of-its-kind example by taking initiative to adopt a “Charter for Pulp & Paper Industry of Uttarakhand and UP in Ganga RiverBasin.”

This has helped in substantial reduction of industrial pollution in river Ganga. Mr. Agarwal has been duly recognized for his inspirational work.

Some of the accolades conferred upon him are given below:

- a) “Excellence in Environment Care” award by Amar Ujala in 2017.
- b) “Jewel of Uttarakhand” award by Uttaranchal Deep newspaper in 2018.
- b) “Inspirational Leaders Award 2018” by WCRC





Naini Group is a leading agro-based writing and printing paper manufacturing group of the country. The two group companies – Naini Papers Ltd and Naini Tissues Ltd manufacture 110,000 Tons of paper per annum with an annual turnover of Rs 6.5 billion.

The vision, mission and core values of Naini are encapsulated in its tag line – “Ethically Firm Environmentally Strong.” The group has been making international quality of writing-printing and copier paper from agricultural residue bagasse and wheat straw for the past 13 years. It has been the continuous endeavour of Naini Group, to produce best quality paper with least environmental impact and lowest carbon footprint. As a result, the group companies have established quite a few benchmarks in the industry as regards to consumption of chemicals, fresh water and energy. Some of the best technologies employed are wet washing of raw material, oxygen delignification, oxygen bleaching (in extraction stage), top former, shoe press, ultra high pressure showers, film size press, QCS, synchro-fly sheeters and automatic ream wrapping lines.



The products include both surface and non-surface sized papers with a brightness level of 94%. The group’s copier brands ‘Maple’ and ‘Monarque’ have created a niche position in the market.



The group companies follow best environment practices that include anaerobic





treatment of effluent to produce methane gas, and tertiary treatment to recycle most of the effluent back into the system. The environment lab is well equipped and is NABL accredited. In addition, both the group companies have ISO 9000, ISO 14000 and OHSAS 18000 accreditations. The niche products have recently acquired PREPS3 certification.

Some of the pioneering efforts of the group in the field of environment friendly technologies are as given below:

- a) First agro-based kraft paper mill in the country to install a “Soda Recovery Plant” in 2003.
- b) First agro-based writing-printing paper mill in the country to install “Oxygen De-lignification Plant” in 2010.
- c) First agro-based writing-printing paper mill in the country to achieve 40 Cu Mtr fresh water consumption per Ton of paper.





- d) First ECSB Reactor in the country to provide anaerobic treatment to effluent prior to aerobic treatment.

Some of the awards won by Naini Group are given below:

- a) First "Environment Award" to Naini Papers Limited in 2004.
- b) Second "Environment Award" to Naini Tissues Limited in 2005.
- c) "Excellent Water Management Award" to Naini Tissues Limited by Confederation of Indian Industry in 2007.

Naini is contributing to the society by a series of Corporate Social Responsibility (CSR) initiatives in the field of education, health and hygiene and environment.





RAMJI BOARD AND PAPER MILL PVT LTD

Dinesh Garg, he is Director of Ramji Board and Paper Mills Pvt Ltd, he has come a long way in paper industry. He has been dedicatedly looking after sales and accounts of the company for more than a decade. Having been around for a long time he has witnessed all the upheaval of the Kraft industry.

A visionary, with a nice heart, he sees a very bright prospect for Kraft industry.



Dinesh Garg

Ramji Board and Paper Mill Pvt Ltd, a company incorporated in early 90's started its commercial production in 1994. It started making Kraft paper and at the initial installed capacity of 15 tons per day. Slowly with time, expansion phase came in and now after lot of turbulence with the company having passed the litmus test, it is today producing around 60tpd and looking forward to expand its capacity to 110 tpd by end of year 2019

Company has two young directors and they look forward to expand and enhance capacity in coming future.





SESHASAYEE PAPER AND BOARDS LTD, ERODE

Ganesh Bhadti is currently Vice President Technical at Seshasayee Paper & Boards Ltd., Erode unit in Tamilnadu. He graduated from Karnataka University in 1983 in Pulp and Paper Science and completed an Executive Master Program in Business Administration with specialization in Human Resource Management & Operations Management. With 34 Years of service in Pulp & Paper Mills, he has worked in almost all sections at different levels having Grown from the junior level up to current position by sheer dedication and commitments. Ganesh Bhadti is a team player who believes in systematic working, process improvements with a planned and positive approach. He has travelled widely across the globe.



M.Moorthi, is a Officer Paper machine is Diploma holder in electronic and Instrumentation and Bachelor of computer application. He started as a paper maker in SPB and has a 15 years of experience in paper making operation and control system in integrated pulp and paper mill. Especially in high speed paper machine (1000 MPM) in writing and printing paper. His forte is troubleshooting in the process operation and systems within a short span of time. M. Moorthi is widely experienced in QCS and DCS operations as well. Besides he is fully involved in Green co activities as SPB is TPM oriented FSC Certified and eco- friendly ECF organisation.





V.Sundaresan is the vice president of Seshasayee Paper and Boards Ltd. Unit - Tirunelveli, Tamilnadu, India. He did his schooling from Madurai thereafter completed his graduation and went on to do his masters in pulp and paper from IIT Roorkee (1977-1979). He initially joined SPB Erode unit and later shifting to SPB Tirunelveli when the mill was taken over from Subburaj .V.Sundaresan was instrumental in turning around a sick unit from a scratch into a division which manufactured products that are well accepted worldwide. This plant now exports paper to USA and many other countries. His strong points include involving and motivating people in respect to cost saving, safety measures, energy saving with a special emphasis on the environmental aspects.



V. Sundaresan

Seshasayee Paper and Boards Limited (SPB), Erode was established the first integrated Paper Mill, with a capacity to produce 20,000 tonnes of paper per annum, in the State of Tamil Nadu in 1962, under the dynamic leadership of Sri S.Viswanathan who was a freedom fighter as well.

Since its establishment SPB has embarked upon a periodic expansion cum modernization drive and has grown in strength to its current installed capacity of 1,15,000 tonnes per annum under the helm of Sri N.Gopala Ratnam the current Chairman of "ESVIN" Group of Companies.

Contract Farming

The Social Forestry Programme provides technical expertise for growing Eucalyptus, Casuarina and other pulpable woods by marginal farmers with buy back assurances. SPB has undertaken a massive farm forestry initiative under which over 1,20,000 acres of lands have already been covered under the programme. The womenfolk from the neighbouring villages are being engaged for this work thereby ensuring a long term and sustained employment opportunity for them. Every year, the Company arranges for planting of around 7 crore saplings.

In order to strengthen its market share in paper industry, SPB acquired a sick mill in 2011, established by Subburaj Papers Private Limited in Tirunelveli District, Tamil



Nadu to manufacture 72,000 TPA paper of a different quality. The mill was merged with Seshasayee Paper and Boards Ltd. and has been renamed as "Seshasayee Paper and Boards Ltd., Unit - Tirunelveli.

The Mill has an inbuilt production capacity of 300 TPD of Voith Paper Machine (pre owned) with De-Inking Plant supplied by METSO, Finland. The Machine width is 4.4 meter deckle and is capable of producing Newsprint and Writing & Printing papers including copier. Paper converting facility and warehouse are the inbuilt additions of the mill. The Mill has a captive coal based co-generation plant to generate about 6.6 MW of power catering to about 50% of its power requirement along with extensive Water and Waste Water treatment facilities.

The Mill obtained licence to produce 90000 TPA and instituted necessary modification in PMC, DIP and ETP. PMC has been modernized with essential automation and upgraded with film press and top former to improve the quality of paper to have compatibility in multicolor printing. De-Inking plant is on the way of upgradation by the installation of wet-lapping facilities. Effluent treatment plant is also upgraded with additional pre-treatment facilities along with anaerobic treatment to achieve ZLD.

The Mill has developed about 195 acres of dry land into greenery by the planting of 4.85 lakhs saplings such as Eucalyptus, Acacia, Subabul, Casurina and Melia dubia and others to have a green cover and for CO₂ mitigation by effluent irrigation at a cost of Rs. 75 lakhs. Rain water is collected in the rain water collection pond and recycled back to the mill after suitable treatment in the plant.

The Mill has a full-fledged safety team and gives paramount importance on Human health and safety.

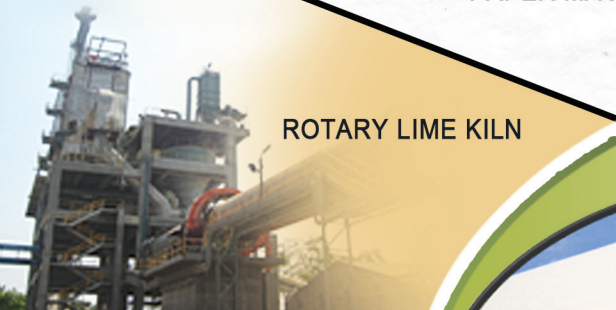
In addition to ISO 9001, 14001 and OHSAS 18001 certification, SPB has also obtained International Certification by Forest Stewardship Council (FSC). It is a Greenco Gold rated company. SPB has always been a responsible player in the paper industry.

Products : SPB produces a wide range of products such as printing and writing papers, packing and wrapping papers and specialty papers. SPB has branded products namely "Sprint" –the multipurpose office papers, "Index" – copier papers and "Success" - Exam papers and "Success" Exercise Note Books. SPB also exports its products under the customer's label.



**HIGH SPEED
PAPER MACHINE**

**CHEMICAL RECOVERY
BOILER**



ROTARY LIME KILN

SESHASAYEE PAPER AND BOARDS LTD : ERODE



**RDH
WOOD PULP LINE**

EVAPORATION PLANT



CAPTIVE POWER PLANT





SHREE GAJANAN PAPER & BOARDS (P) LTD.

Varun Sunil Agrawal, 26 years, Director of Shree Gajanan Paper & Boards Pvt. Ltd., having per day capacity of 200 MT Kraft Paper. His educational qualification is B.M.S. He is doing the export promotion work for the Company. At present he is engaged in the export business of the Company with some Arab Countries. Due to his sincere and hard work, more than 50% of our product is exporting. Basically he is from a family where everybody is related with Paper Mills, he is the younger son of Mr. Sunil M. Agrawal - the Managing Director of the Company Shree Gajanan Paper & Boards Pvt. Ltd., Therefore he is having enough business experience from his childhood itself regarding paper mill and its management.

As he is managing the export business of the Company, he has to visit foreign countries and thus he had visited foreign countries several times in this small age and got experience and business techniques of other countries also. He is enthusiastic to know more about the scope of developing this family business.

Over and above, he is sincere, faithful to elders as well as loving and careful to all living beings and to the nature. His ambition is to make this Company a 100% EOU unit.

Gyan Prakash Gupta has a vast experience of about 39 yrs. in the paper industry. He has been associated with us since past four years. He has worked with various reputed paper mills in his long journey. He has been instrumental in improving our productivity, quality and profitability and we have achieved great progress in the industry. Under his leadership the paper being manufactured in our mill is far superior in quality as a consequence we are currently exporting good quantity to different countries.



Varun Sunil Agrawal



Gyanprakash Gupta



Our Company **Shree Gajanan Paper & Boards Pvt. Ltd.**, was incorporated on 16th June 1995 and was started its commercial production during 1998. The Promoter Directors are Mr. Sunil Madanlal Agrawal, Mr. Madanlal Radhakishan Agrawal and Mr. Sanjay M. Agrawal – the family members. Mr. Madanlal Radhakishan Agrawal is the father of Mr. Sunil M. Agrawal and Mr. Sanjay M. Agrawal. Mr. Madanlal Radhakishan Agrawal is the elder brother of Mr. N. R. Agrawal – the founder of N. R. Group of Industries. The Agrawal family is involved in Paper manufacturing business for over 35 years. Both Mr. Sunil and Mr. Sanjay Agrawal were taking active part in their family business which is controlled by their Uncle and one of the biggest paper mills of Western Zone. Their present production capacity is more than 500 MT per day. Thus they have gathered thorough knowledge in all aspects of management of a paper mill.

Later Mr. Ismail B. Chaudhary has also joined the industry with his Capital and at present there are three Directors as follows –

Mr. Sunil M. Agrawal – Managing Director

Mr. Sanjay M. Agrawal – Director

Mr. Ismail B. Chaudhary – Director

Mr. Sunil M. Agrawal aged about 55 years. His educational qualification is B.Com. He is looking after the overall management of the industry. He looks after the marketing and sales realization also. At present his son Mr. Varun Agrawal aged 26 years - B.M.S is also working with him to achieve the goal of export business.

Mr. Sanjay M. Agrawal aged about 52 years. His educational qualification is B.Com. He is looking after the production side.

Mr. Ismail B. Chaudhary aged about 55 years. His educational qualification is 12th. He is already in the field of supplying raw-materials to various paper mills situated at Vapi and surrounding areas. He is looking after procurement of raw-materials to our industry.

The plant was installed with a daily production capacity of 40 Ton Per Day. After various expansions throughout the past, at present our unit is having the production capacity of 150 Ton per day.



Our annual turnover is about rupees One Hundred crore at present. The production technology is changing day by day. So we have to invest some more funds for further expansion work which is under planning so that we can achieve yearly turnover of about 150 crores rupees with a production capacity of 200 MT per day of higher BF kraft paper.

Our mill is providing job to about 300 employees directly and about more than double indirectly. We are having enough qualified managerial as well as production staff to handle the industry.

Our Financing Banker is BANK OF BARODA, SSI Unit, Vapi.

We manufacture Kraft Paper – the raw-material for the corrugation industry. The corrugated box is the latest packing material for almost all products. We supply our products throughout Gujarat, Daman, Silvassa, Maharashtra, Pune and to some southern places also. Over and above at present we are exporting about 50% of our products to Saudi Arabian Countries.

We do supply our products through agents as well as direct to end-users. We do manufacture 18 BF to 28 BF and GSM from 120 to 180. Our products have already accepted by the market.

We hope to achieve our goal of 150 Crores rupees turn over by the year 2018-19.





SHREYANS INDUSTRIES LIMITED

Ashok Goyal, President of Shree Rishabh Papers [a Division of Shreyans Industries Limited], is a professional having about 36 years experience to his credit. Prior to his present assignment, he worked for more than three decades in one of the premier Textile Group of Northern India. He had a stint in the engineering industry also for about 4 years.

He has participated in many seminars/workshops/conferences on management topics besides participating in Exhibitions-cum-fairs, both in India and abroad.

He acted as President of Bathinda Management Association [a local arm of All Indian Management Association-AIMA New Delhi] for two consecutive terms and is a member of Governing Body of a College in Bathinda. He also contributed to sports in the capacity of Vice President of District Badminton Association, Bathinda.



Ashok Kumar Goyal

Anil Kumar, Executive Director & CEO of Shreyans Industries Limited, a leading agro based paper mill of north India, has more than 45 years of professional experience with last 35 years being with paper industry. He has been actively associated with various professional and administrative bodies connected with paper industry.

He has been Past President of Indian Pulp and Paper Technical Association. He represents paper industry on various forums, which includes Council member of Central Pulp and Paper Research Institute [CPPRI], Member of Development Council for Pulp, Paper and Allied Industry, Ministry of Commerce and Industry, Govt. of India.

He is presently Senior Vice President of Indian Agro and Recycled Paper Mills Association [IARPMA]. He is widely travelled and has been a speaker on various National and International forum.



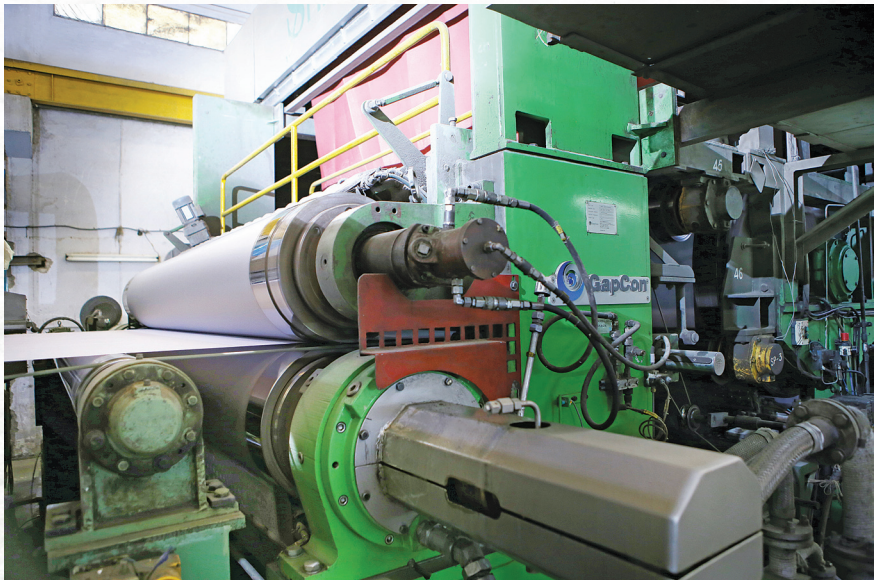
Anil Kumar



Shreyans Industries Limited is a leading agro based paper manufacturing Company located in Punjab, a major agrarian state of India which produces large quantities of agro waste.

Established in 1982 with a capacity of 30 TPD, which has over the years gradually expanded to the present level of approx. 300 TPD.

Shreyans Industries Limited has been a leader in adopting latest technologies and has many 'Firsts' to its credit, which include:





- a] Operationalising first ever Continuous Digester for wheat straw and other agricultural residues in India, which has become a standard equipment for all agro based mills now.
- b] Commissioning first ever Fluidized Bed Reactor based Chemical Recovery based on wheat straw black liquor in the country. This is conceiving many agro based mills from power facing closure due to non-availability of suitable chemical recovery system.
- c] Commissioning UASB Reactor for treating raw material wash liquor from wheat straw.
- d] Commissioning a mini shoe press suitable for agro based fibres on paper machine.

Shreyans produces wide range of writing and printing papers including Offset Printing Paper, Maplitho Printing Paper, Security Papers and Coloured Printing Paper.





SIDHARTH PAPERS PVT. LTD.
&
SIDDHESHWARI PAPERS UDYOG PVT. LTD.

Vineet Kumar Sangal is a graduate and has over 30 years experience of running Paper Industry.



Vineet Kumar Sangal

Sidharth Group of Companies was established in the year 1986. The group comprises of Sidharth Papers Pvt. Ltd. and Siddheshwari Papers Udyog Pvt. Ltd. both located at 7th KM, Moradabad Road, Kashipur, (Uttarakhand) while Siddheshwari Industries Pvt. Ltd. Situated at 8.6th KM, Jansath Road, Muzaffarnagar, Uttar Pradesh.

The group employs 580 personnel. The group is into manufacturing Paper and Paper Board mainly Kraft paper and Duplex board. The Production capacity of Kraft paper is 110000 M.T whereas that of Duplex board it is 148000 M.T.

The recent developments in 2018 have been Installation of the Shoe Press. It has been procured from Walmsley (U.K). The group expects that with this new addition the quality and consistency of its paper will improve considerably besides adding value to the finished paper.

All the units of Siddharth Group of Companies are compliant with necessary environmental standards and all efforts are made to sustain CSR Activities in Environment, Society and Employee Welfare.

The focus areas of the group's CSR Policy are education, preventive health care, sanitation, environment and engagement. As a responsible corporate citizen, the group has incurred a sum of Rs. 48.90 Lakh in various CSR initiatives in these focus areas.



SILVERTOAN PAPERS LIMITED

Amit Garg is one of the key members of Board the Company. He has an experience of more than a decade in the paper industry. Under his direction, Silvertoan started with the goal of building a strong and sizable business through expansion and augmented Kraft Papers. Production capacity on time and continuously focused on up-gradation and reinforcing our maximum presence in the market. Silvertoan Papers, grew to more than 6 times of its capacity, by modernisation of paper machine Ist, installing a totally new integrated cogeneration plant, setting up Paper Machine IInd, a chemical recovery unit, under the his leadership and his approach towards paper industries. Mr. Amit Garg is one of the key members of Board the Company. He has an experience of more than a decade in the paper industry. Under his direction, Silvertoan started with the goal of building a strong and sizable business through expansion and augmented Kraft Papers. Production capacity time and continuously focused on up-gradation besides reinforcing maximum presence in the market. Silvertoan Papers, grew by more than 6 times of its initial capacity, by modernisation of paper machine one, installing a totally new integrated cogeneration plant, setting up Paper Machine two, a chemical recovery unit, under the his leadership and his approach towards paper industries.



Amit Garg

Prasoon Agarwal is one of the key members of board the Company. He has an experience of more than a decade in the paper industry. It is under his direction, Silvertoan started with the goal of building a strong and sizable business through expansion and augmentation of Kraft Papers. On time Production synced with capacity utilisation and be constantly focused on up-gradation besides reinforcing maximum presence in the market which he lays stress on. Silvertoan Papers has grown to more than 6 times of its capacity, by modernisation of its first paper machine, installing a totally new integrated cogeneration plant, setting up IInd Paper Machine, a chemical recovery unit, under his leadership and approach.



Prasoon Agarwal



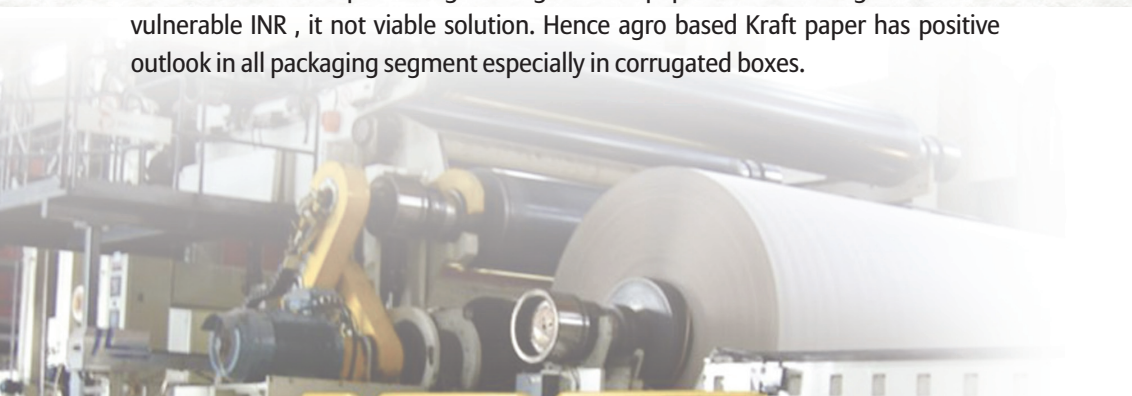
Silvertoan Papers Limited is a leading manufacturer and exporter of agro based Kraft Paper, which are manufactured using eco-friendly agro-waste raw materials. We established our manufacturing Unit in the year 1990 at Muzaffarnagar (U.P.) India. We have achieved a turnover of USD 30 million annually and a production capacity for 1,15,500 MT per annum. We don't cut trees to manufacture papers. Only bagasse, wheat straw, waste paper, etc. are used in production process. Over the years—ever since the paper production industry came into existence, the use of wood to make pulp furnish the end product has led to the cutting of trees in large numbers. The trees that sustain our life have been treated dreadfully. However, the use of bagasse can solve these problems to a large extent. Since bagasse is a waste product of sugar industries, no more trees need to be cut for paper productions. Our Company uses Bagasse in manufacturing Papers. Bagasse is highly biodegradable. At the same time, Our Company also uses Waste Papers (Recycling Paper) which reduces adverse effect on environment.

Hence, Our Company supports “Go Green Initiative” for long term Sustainable Development. Our aim is to make environment friendly papers by using agro-waste materials in order to provide benefits to the farmers as well as ecological system.

We continue to gear-up for improving our products' quality to International Standards as well as up-grading our business to attract greater market share nationally and internationally and also scale new heights by diversification in our products range. Accordingly, we are continuously on the path to modernize our existing Mills with the latest state-of-the-art equipment's.

Vision about Paper Industry

The market is in need of high RCT paper and the only substitute Agro based paper to achieve RCT is imported high strength waste paper but due to higher cost and vulnerable INR, it is not a viable solution. Hence agro based Kraft paper has a positive outlook in all packaging segments especially in corrugated boxes.





SRIPATHI PAPER AND BOARDS PVT. LTD

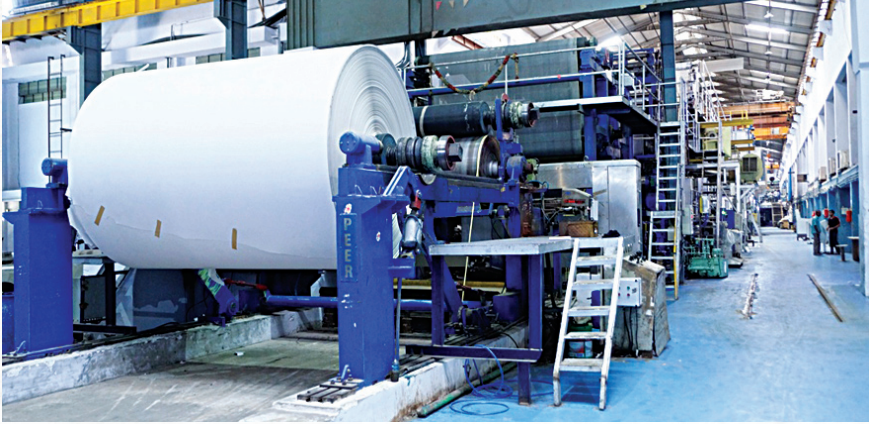
R. Krishnaswamy is Chairman and Managing Director of Sripathi Paper And Boards Pvt Ltd. He, is a qualified Chartered Accountant and a first Generation Entrepreneur. Having spent several years in the paper industry, he set out to create an enterprise that envisions becoming a market leader whose foundation rests on the principles of recyclability and is committed to green manufacturing.



R. Krishnaswamy

Sripathi Paper and Boards Pvt. Ltd a multi-location entity manufacturing predominantly industrial grade packaging paper and board and variety of paper is poised for a quantum leap both in production and quality .





The unit started in 2002 with a capacity of 30 MT Kraft paper per day has grown at a CAGR rate of 26 % over the years and now with the new capacity expansion the capacity will reach 850 MT per day due to the grit and determination of the management. Sripathi has foot hold in all varieties of paper including Kraft paper, Duplex board and writing and printing, news print and colour varieties.

Sripathi is a leading manufacturer of industrial packaging products like corrugated range of Kraft paper and Boards without compromising on quality. It would like to be in consumer's preference list from grocery bags to FMCG goods and like to be seen as an "unseen performer of great ideas". Sripathi has an in-house R & D facility which has been recognized by the Department of Science & Technology, Government of India and has been conducting continuous research in improvement of product quality and reducing input cost of manufacturing eco-friendly products.





RAMAA SHYAMA PAPERS PVT LTD. & TIRUPATI BALAJI FBRES LTD

Abhinav Agarwal is a BE from NIT Rourkela (Applied electronics and instrumentation engineering). Having worked as Software Engineer at INFOSYS Technologies he is currently looking after RamaaShyama Papers Pvt Ltd and Tirupati Balaji Fbres Ltd as Director...

He has done work in energy conservation and steam savings. He is associated with many social and business associations and is presently, Vice president of Indian Industries Association Muzaffarnagar chapter. As well as Secretary, Central UP Chamber of Commerce and Industry Bareilly.



Abhinav Agarwal

Ramaa Shyama Papers Pvt Ltd., Bareilly and **Tirupati Balaji Fbres Ltd., Muzaffarnagar** have been making multilayered high RCT kraft from 18bf to 35bf at Ramaashyama Papers Pvt Ltd. Apart from catering demand from automatic corrugation units in North India, Uttaranchal, Rajasthan, Delhi and MP, the mills have been exporting to Nepal, Bhutan, China and Dubai as well. The main strategy followed is best efficient use of available sources. It firmly believes in the mantra of Team building.





At Tirupati Balaji Fibres Ltd makes writing printing paper and Newsprint paper.

The mills are under expansion mode and it is expected that the production capacity shall be doubled very soon. The products are well accepted and have a good market demand in India and as well as abroad. The main focus of their team here is giving quality paper to market.

To achieve desired results the strategy here lies in Team building. Besides, the main key to workability is in giving all concerned independent responsibility alongwith accountability.

Considering the current market scenario and future prospects of the industry, it has been decided strategically to meet the same by the plants.





VENKRAFT PAPER MILLS

Subash Chandru Ramamurthy has done a Bachelors Degree in Mechanical Engineering from Birla Institute of Technology and Science (BITS), Pilani and MBA in International Business from ENPC - Paris, FOX School – Philadelphia, USA and Temple University - Tokyo. He is the Managing Director, Venkraft Paper Mills Pvt. Ltd.

Mr. Subash Chandru R is the second generation entrepreneur in the group with commendable credentials to his recognition. He is the topper in his class in both engineering and management discipline. He has superior knowledge in machinery design and process engineering through his engineering discipline, which has given him noteworthy technical skills in establishing and operating paper mills.

After graduation, he took over the converting plant of the group and was successful in tripling its turnover. He then vertically integrated it through the establishment of the Kraft paper mill. This paper mill is the state of the art green field project which was established in a record time of eight months from concept to commissioning in India. In addition, the mill had recorded profits right in the first year of operations.

Further on, he went to pursue his higher education in International Business through a tri-continent MBA program. After this he has set up a state of the art duplex board manufacturing unit.

He is a result oriented person and dedicates himself until the results are achieved to his satisfaction. He hopes to replicate the success of the establishment of the paper mill project in its expansion as well through effective project management.



R. Subash Chandru



Venkraft Paper Mills, is a leading producer of recycled and virgin container board in Emerging India, with integrated production sites and an outstanding sales and logistics network.



The full vertical integration of Venkraft's business from forestry and pulp to finished converted products guarantees consistent premium product quality and a reliable supply to our customers.

From rugged boxes for protecting fruit in transit, to those in direct contact with fast food or from safe shipping of heavy duty electronic goods to luxury products where high-quality printing is essential. Venkraft has an innovative, cost-effective Testliner, Fluting medium, Folding Box Board, Duplex Board, White Top Kraft Liner product





Applications include Match Boxes, Agarbatti Cartons, inner and outer packing cartons for garment, Pharmaceutical Industries, Textile Industries, Automobile Industries, Tobacco Industries, Standard boxes, Die-cut boxes. Venkraft also manufacture Food Grade packaging board.

We are fully committed to leading the way in innovative, high-quality solutions across a paper portfolio for every box application. We support our extensive product portfolio with our reliability and availability promise.

We are pioneers in the field of packaging business with more than a decade of experience in serving the packing requirements of our esteemed customers. As a result of backward integration we have installed two paper machines to manufacture Kraft paper and Duplex board . We have a steady growth in the turnover of our paper mill since its inception and the same is reflected in our financial statement. With separate streets of pulping for various fibers and our own raw material sourcing network, we have a competitive edge over our peers in this industry.





VISHVAKARMA PAPER & BOARDS LTD

Vikas Jain is the key person and CEO of the Vishvakarma Paper & Boards Ltd. He is an experienced entrepreneur who has been successfully running the company for many years.



Vikas Jain

Vishvakarma Paper & Boards Ltd. is a closely held Public Limited Company having following people on its Board of Directors :

Mr. Dhanpal Singh Jain

Mr. Vikas Jain

Mr. Suresh Chand Jain

Ms. Anju Jain

The company is manufacturing Kraft Paper from Waste Paper and Agro products and has an installed capacity of 52000 TPA . Vishvakarma Paper & Boards Ltd mill is located at 4.5 Km. Ramnagar Road, Kashipur, Distt. U. S. Nagar in the state of Uttarakhand, India.





The company has been performing quite well since its incorporation. The capacity utilization is nearly 70%. The mantra keenly followed by the promoters is in utilizing the available resources to their maximum potential to get the maximum results.

The Company enjoys considerable goodwill in the market due to the quality of its product Manufactured. The Kraft Paper of Vishvakarma Papers is well known for its superior quality and therefore selling the product in the market is not a difficult task.

Taking a cue from the fact that since the company enjoys a reputation for the quality of its products, it is envisaged that selling an increased output will not be a challenging proposition. Taking into account that there is an increased demand for its products, the promoters think that now is the right time to materialize their plan of expansion.





WIRES & FABRIKS

Devesh Khaitan is a Third Generation Entrepreneur in the business. He has done a Masters course on Family Business Management (EDII, Ahmedabad) and a Masters course on Finance and Management (Exeter University, UK). Currently he is involved with Customer Solutions, Marketing and production part of the business. He likes to play Golf, besides Travelling and listening to Music.



Devesh Khaitan

In 1963 at Jaipur with German Machinery and Technology the company started manufacturing Technical Textile – Paper Machine Clothing, namely, Phosphor Bronze wire cloth for the Paper Industry. Stainless Steel Wire cloth was introduced in 1974. After further additions in capacity and products, in 1981, the company





entered into manufacturing of Single Layer Synthetic Forming Fabrics with German collaboration. Double Layer Synthetic Forming Fabrics were introduced for the first time in India in 1996. Yet again SSB range of fabrics was introduced again for the first time in India in 2006. The company products range includes Dryer Screens (Woven and Spiral), Pulp Fabrics and Technical Textiles.



Today, Wires & Fabriks is the market leader in India and the sub-continent for Technical Textile – Synthetic Forming Fabrics. In the Paper Making Chemicals, the company has a tie-up with some of the best overseas Paper Chemical Manufacturers.

The company was awarded accreditation under ISO 9002 system in 1994, which has been upgraded from time to time with the latest advancement to 9001:2015





accorded in 2016. The company is the first manufacturer of technical/industrial fabrics in the country to have its In-house R&D recognized by the Govt. of India. The company constantly updates itself with modern machines and latest technology. It also exports its products to many countries.

The company's mission is to consistently delight its customers through its value-added products and services. Furthermore to create a strong technological base through an environment of teamwork, to enable it to become a world – class manufacturer in its existing product line and at the same time use its strength to diversify into other profitable ventures.





YASH PAPERS LIMITED

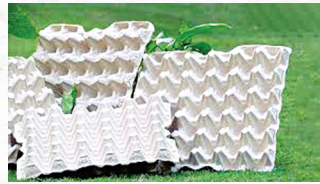
Narendra Agrawal, Yash Papers is blessed to benefit from Narendra's twenty five years of rich experience in projects. His skills have enabled Yash to minimize downtime, enhance production operations, and improve operational efficiencies. He has a Bachelor of Engineering (Mechanical) from MNREC Allahabad in year 1993. In his personal time he enjoys reading and organizing for the care of children and elderly.



Narendra Agrawal

Yash Papers Limited is a provider of consumer, industrial and protective packaging solutions, established in 1981 located at Faizabad Darshan Nagar (Ayodhya) UP. The Company operates three paper machines that manufacture low grammage machine glazed (MG) industrial bleached and unbleached grades of paper. It produces paper grades for wrapping and pharmaceutical uses, among others. It offers products in various categories, such as pulp, molded products, paper and bags. Its products in molded products category include Foodservice Disposables





and Egg Trays. Its products in pulp category include UAP-Unbleached Agro Pulp and BAP-Bleached Agro Pulp.

Plants total paper production capacity is 39,100 metric tons per annum with pulp mill capacity of 130 tons per day, and its chemical recovery unit has a capacity of 140 MT bone dry solids. It has two cogeneration power plants with an output of 2.5 megawatts 6.0 megawatts.

We are a rare company that provides an agri-residue pulp. Our pulp is mostly made of sugar cane waste (bagasse) and sometimes wheat straw. We provide pulp in both bleached and unbleached varieties.

Our product range focuses on the food industry — compostable disposables for food service, and egg trays for food storage and transportation.

We are a group of people who believe in contributing to our world through business. We think that a traditional industry like paper can be run differently. And so we do.





Products are made more sustainable by using renewable resources. We work on providing solutions by better understanding the needs of the customer, rather than offering generic products. We build our team and internal workings to enable creativity and empower our people. When we perform at our best, we believe joy at work is a reality.





INDIAN PULP AND PAPER TECHNICAL ASSOCIATION (IPPTA)

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membership@ippta.co, advertisement@ippta.co • Website : www.ippta.co



IPPTA’S KOREA VISIT PROGRAMME SCHEDULE



Date	Time	Location	Activities	Remarks
DAY 1 - 20, Oct (Saturday)		ICN Jogyesa Temple / Insadong Art Street Ibis Styles Ambassador Seoul Yongsan Hotel	Arrival Field trip / Free time Hotel Check-in	Enjoy breakfast <i>We would go to an Indian restaurant for lunch around 12.00 noon and sight seeing thereafter. Those arriving by noon may join us at convenient time. Will call. Those arriving late in the evening will receive packed dinner in the hotel.</i>
DAY 2 - 21, Oct (Sunday)		The Blue House / Gyeongbok Palace /Bukchon DDP / Samsung D'light / KOEX Mall Vehicle Ulsan City Lotte Hotel	Field trip / Free time Field trip / Free time Move to Ulsan Hotel Check-in	<i>Leave hotel by 9.30 am for sightseeing with baggage</i> 4h (370km)
DAY 3 - 22, Oct (Monday)	7:30 10:00 12:30 13:30 15:00 18:00 19:00 20:30	Vehicle EMTECH FACTORY Vehicle JEONG WON CHEMICAL FACTORY Vehicle Ulsan City Lotte Hotel	Move to Daegu Industrial Visit Lunch Move to Busan Industrial Visit Dinner Move to Hotel Wrapping-up	2h (130km) 1h 40m (120km) 1h 20m (85km)
DAY 4 - 23, Oct (Tuesday)	9:00 9:30 12:30 14:00 17:00 18:00 22:00	Vehicle HANKUK PAPER FACTORY Lunch MOORIM P&P FACTORY Dinner Vehicle Cheongju Grand Plaza Hotel	Check-out / Move to the Factory Industrial Visit Industrial Visit Move to Cheongju Check-in	30m (16km) 3h 30m (284km)
DAY 5 - 24, Oct (Wednesday)	9:00 9:30 12:00 13:00 15:00 18:00 19:00 20:00	Vehicle DAEHAN PAPER FACTORY Lunch Vehicle JEONJU PAPER FACTORY Vehicle Dinner Cheongju Grand Plaza Hotel	Check-out / Move to the Factory Industrial Visit Move to Jeonju Industrial Visit Move to Cheongju Check-in	30m (30km) 1h 40m (120km) 1h 40m (120km)
DAY 6 - 25, Oct (Thursday)	8:15 9:00 12:30 14:00 15:00 18:00 19:30 21:30	KLEANNARA FACTORY Lunch Vehicle HANSOL PAPER FACTORY Dinner Vehicle Raon Stay Jinju	Check-out / Move to the Factory Industrial Visit Move to Sintanjin Industrial Visit Move to Jinju Check-in	30m (25km) 40m (30km) 2h (200km)
DAY 7 - 26, Oct (Friday)	9:30 10:00 13:00 14:30 15:30 18:00 22:40	Vehicle CONFERENCE / TECHNICAL MEETING (GYEONGSANG NAT'L UNIV.) Lunch Vehicle WOLSAN PAPER FACTORY Vehicle Sotetsu Hotels The Splaisir Seoul Myeongdong	Check-out / Move to GNU Move to Masan Industrial Visit Move to Seoul Check-in	10m KTAPPI KTAPPI 50m (60km) 4h 20m (340km) <i>Mini bus would leave hotel at 6.30 am to airport, for those departing on 26th.</i>
DAY 8 - 27, Oct (Saturday)		ICN	Departure	<i>Leave for airport around 10 am</i>