THE BRAND FOR EXCELLENCE
WHERE KRAFT IS OUR CRAFT

KRISHNA TISSUES PVT LTD - UNIT II

India’s largest producer of KRAFT LINER

WE ARE COMMITTED TO NATURE
Krishna Tissues Pvt. Ltd. (UNIT - I)
Bagnan, West Bengal, India
350 TPD Coated Duplex Board and Folding Box Board Unit

Krishna Tissues Pvt. Ltd. (UNIT - II)
Burdwan, West Bengal, India
500 TPD High Performance Kraft and White Top Liners
(India’s largest paper mill producing kraft liner)
Company Overview

Krishna Tissues Pvt Ltd,
the largest producers of coated Duplex Board in Eastern India has now ventured into manufacture of world class quality and the largest paper mill in India for producing kraft liner and white top liner.

The company which has been in the manufacturing of quality Duplex board for about a decade has now put up its second unit for the manufacture of High performance Kraft liner in Burdwan in the state of west Bengal, with the latest advanced technology and state-of-art Machines and Equipment from the worlds renowned machine suppliers.

The company will produce 165000 metric tons of high performance multilayer kraft liner annually and cater to need of high quality of international standard packaging products for FMCG, Textiles, Beverages, Food and fruits, Electronic gadgets and sophisticated tools, spare parts and heavy machineries.

KTPL the company promoted 10 years ago by Sri M L Bajaj and his two sons Mr. Jyoti Bajaj and Mr. Kanti Bajaj, have now established its goodwill in the packaging paper manufacturing industry. With their Vision of growth they have created a niche in packaging paper industry and have now set up a world class Kraft paper manufacturing unit to deliver its customers the best quality materials and higher value for their price.

Sri M.L.Bajaj, the chairman of the company is an Honours Graduate in Physics. He had a great vision of putting up his own paper manufacturing Unit when he was looking after production at Orient Paper mill at Amlai in 1966. His vision came true in 2006 when he along with his sons Mr. Jyoti Kumar Bajaj and Mr. Kanti Kumar Bajaj put up his first paper mill at Bagnan, West Bengal.

After successful running of their duplex Board Unit for 10 years the promoters gained sufficient knowledge and experience required for a paper mill and have transformed it into action by putting up their second unit for manufacturing of high quality kraft liner at Burdwan. The promoters are committed to deliver the best quality and optimum value to their customers and to maintain high standards of their products across the country and international markets.

“KRISHNA” the brand of excellence, has many advantages over the traditional kraft papers. Produced on the most sophisticated and technologically advanced imported machines and equipment from the best manufacturers of the world, it will command leadership in the packaging paper market. In future “KRISHNA KRAFT” shall be the first choice of the packaging people.
SALIENT FEATURES OF KTPL PLANT (UNIT - II)

FOURDRINIER WIRE PAPER MAKING MACHINE

World class and fully sophisticatedly controlled three wire fourdrinier paper making machine designed to form a continuous sheet with a larger trim.

Benefits:
- Large machine trim of 5.6 meters
- Production capacity of 1,65000 tons annually
- Best fibre formation
- Improved tensile strength

PULPING SECTION

Fully automatic equipments from world class manufacturers like Kadant and Andtriz, designed to meet the demanding applications of pulping, furnished with high trash loads and capacity

Benefits:
- Consistent clean pulp and improved appearance of the paper

SHOE PRESS

With an extended pressing with shoe press it is possible to control the cross paper. It is used as a final press to control the desired moisture level maintaining the bulk of the board and improvisation of the surface smoothness level of the liner

Benefits:
- Uniform moisture control and calliper
- Improvised bending stiffness
- Improvised tensile strength
- High bulk, Concora, FCT & RCT values
DRYERS

Multiple improvised CI dryers installed for even controlled moisture profile, providing the best possible paper for Box making

Benefits:
- Uniform drying
- Improvised stability of the sheet
- Controlled cross direction moisture control upto 1%

SIZE PRESS

Application of coating chemical on the surface of dry paper

Benefits:
- Increased surface strength of the liner
- Controlled water absorbency / water resistance
- Improvised internal bonding of the fibers
- Excellent compression & stretch values
- Controlled porosity of the paper
- Reduced dusting properties

CALENDERING

High quality calendaring machine to give
- Surface smoothness of the paper
- Uniform caliper of the paper across the width
- Excellent printing characteristics
- Better runnability of the paper while printing.
Silent Features ....

REWINDER & SLITTER
“MORE THAN WINDING ....... THE BEST WINDING “
Imported from world class manufacturers A-Celli- Italy is perfectly adaptable and compatible, managing volume, diameter and cutting formats with guaranteed extra capacity during peaks in production....... so no wait for delivery

Benefits :
- Excellent rewinding with equal profile on both the sides
- Excellent reel tightness/hardness
- Jointless reels with no moon cuts and peel offs
- Time saving during changeovers due to large diameters
- Uniform reel diameters
- Sharp cut edges

AUTOMATIC REEL HANDLING SYSTEMS
Fully automated handling system, right from the rewinder up to container loading

Benefits :
- Excellent Export worthy packing
- Protected reel edges
- Negligible reel damage in transit
- Safe and sound delivery to customers end.

CAPTIVE POWER GENERATION
11.5 megawatt captive power generation unit

Benefits :
- Uninterrupted Power supply
- Consistent production
- Faster supply
- Economical
KTPL's Systematically designed Quality department, will help to meet the technical requirements in the domestic as well as international markets and overcome the technical barrier which is difficult to obtain and not well understood.

All the tests done at KTPL's Quality Control department will constitute a measure of Achievement, attainment and our ability ensuring that high quality standards are maintained at all stages of conversion, test analysis and reporting of test results thus enhance the measure of reliability.

KTPL's fully automatic Quality Control System (QCS) and distributed Control System (DCS) is committed to consistency and stringent quality control right from the Pulping to the final paper product. This will help all the laboratories around the world to excel in the face of ever increasing regulatory demands and achieve higher production goals.
Contd....

KTPL's in-house quality controlled laboratory have several checks on parameters at various stages during production, which enable to maintain consistently high quality.

The common parameters measured are:

- Gsm
- Moisture
- Burst factor
- Concora
- Flat crush test (FCT)
- Ring Crush Test (RCT)
- Bending resistance/stiffness
- Breaking length
- Tear factor
- COBB Value
- Tensile strength
- Calliper
- Bulk
- Plybond
- Brightness

Benefits:

- Fully automatic control of quality with desired parameters and minimal human intervention
- Complete automation for high speed productivity
- All patient test parameters obtained would be accurate and consistent
- High degree accuracy due to Reduced human labour and error
KTPL EXTENSIVE PRODUCT RANGE

KTPL- KRAFT LINER BOARD
KTPL - is one of the largest suppliers of KRAFT LINER BOARD in India providing high quality-virgin kraft linerboard, as well as recycled linerboard and medium to the corrugating industry. Grades provide optimum performance when combined with corrugated medium in the construction of corrugated boxes. These three-ply linerboard grades can be produced using 100% virgin kraft fiber or include recycled fiber content.

For linerboard, we offer basis weights ranging from 80 to 430 gsm
For mediums, we offer basis weights ranging from 80 gsm up to 250 gsm

We pride ourselves on offering superior and innovative products, technical knowledge and responsive customer service. Our dedicated workforce, on going product development and investment in quality control enable us to create some of the most uniform and consistent linerboard and medium in the industry.

FEATURES:
• Excellent strength, performance and printability, High RCT values
• Flexible selection of grades to meet performance needs with significant box weight reduction
• Product uniformity – consistent and reliable performance
• Multiple forestry and fiber sourcing certifications

END USES:
• Packaging
• Corrugated Containers

KTPL - CHEMICAL FLUTING PAPER
Predominantly manufactured from chemical fibres, KTPL offers Semi chemical fluting paper with a good compression resistance. And also offers high performance and excellent runnability.

Strength properties are guaranteed

TECHNICAL FEATURES:
• Semi chemical fluting is available in the substance range 80-175 g/m²
• High Compression strength Guaranteed
• Can be used safely for various food packaging types.
• Compression resistance

TYPICAL APPLICATIONS:
• Industrial Packaging
• Agricultural Applications
• Consumer Durables
• Electronics
• Food & Beverages

MARKETS:
• Corrugated
KTPL - FLUTING MEDIUM

KTPL - High quality brown packaging paper used for the outer layers of corrugated sheets. It provides effective protection for contents and a smooth surface that facilitates high quality printing and strength properties. Made from 100% recycled paper, it provides good protection during transportation and for use in display stacks. The combination of KTPL Liner and KTPL Medium ensures excellent runnability on corrugator machines.

Fluting medium is available in the substance range 80-350 g/m²
Wide range of substances offers typical Ring Crush values of 40-120 lb (TAPPI 818)

TECHNICAL FEATURES:
- This grade may be produced as sized or unsized quality
- Stable and sustained strength properties also under varying climate conditions

TYPICAL APPLICATIONS:
- High quality packaging with High RCT values
- Industrial packaging
- Agricultural applications
- Electronics

MARKETS:
- Corrugated

KTPL - CORE BOARD

KTPL core board is a Multi-ply board produced from recovered paper. This board is used in various applications where printing quality is not a major requirement. For example, it is used in the production of tubes and cores for the tissue, battery, textile and paper industries and for consumer products including puzzles and games. Other uses of this product are partitions, box dividers and slip sheets.

TECHNICAL FEATURES:
- Available in the substance range: 160 to 430 g/m²
- Ideal performance for industrial conversion processes
- Good stiffness and ring crush properties
- Good performance for printing

TYPICAL APPLICATIONS:
- Consumer products (games and puzzles etc)
- Industrial cores (kraft papers and storage tubes etc)
- Consumer cores (toilet paper, batteries and textiles etc)
- Industrial products (furniture, appliances, binders and glass bottles dividers etc)
KTPL EXTENSIVE PRODUCT RANGE

KTPL- WET STRENGTH PAPER
KTPL Wet Strength Kraft grades provide superior tear strength and puncture resistance, even under wet conditions. Used for multiwall construction, converting and a variety of bag applications, these grades offer an excellent surface for printing. Gsm range from 90 to 120. Reliable strength, appearance and performance make KTPL Wet Strength kraft grades an excellent choice for many demanding applications.

FEATURES:
- Superior wet and dry strength for dependable packaging performance
- Excellent surface for printing
- Product uniformity – consistent and reliable performance
- Multiple forestry and fiber sourcing certifications

END USES:
- Multiwall sacks and bags
- Laminations
- Wraps

KTPL- DECO-LAM
KTPL Decolam is an unbleached absorbent Kraft grade. It is made primarily for use as core paper in high-pressure decorative laminate applications, and offers strong performance and product consistency. KTPL Deco-lam has a reputation for high-speed phenolic resin impregnation and laminate processibility, as well as unique saturability specifications to improve production efficiency and laminate performance. We offer the widest range of basis weights in the industry from 100 to 180 gsm to help meet your exact manufacturing requirements.

TECHNICAL FEATURES:
- Outstanding uniformity and product consistency
- Consistent resin pick-up
- Control of Resin Penetration and Flow at lower total resin content

END USES:
- Decorative Laminates
KTPL- UWTKL (UNCOATED WHITE TOP KRAFT LINER)

KTPL UWTKL is a multi layer product. Top ply consists of pure bleached softwood kraft fibres and the base ply is a unbleached softwood kraft fibres. This grade offers good printability characteristics.

TECHNICAL FEATURES:
- Available in the substance range 140-200gsm.
- Typical brightness of 70% (ISO 2470-1).
- White kraft pulp fibres used are produced as Totally Chlorine Free (TCF) or Elementary Chlorine Free (ECF).
- Possible to deliver reels as FSC® certified/FSC® controlled wood or PEFC certified.

TYPICAL APPLICATIONS:
- Retail Ready Packaging
- Industrial packaging
- Agricultural applications
- Consumer Durables
- Food & Beverages

MARKETS:
- Corrugated with multi color printing on top
- Solid board

KTPL-PERFORMANCE LINER

KTPL Performance liner board grades provide optimum performance when combined with corrugated medium in the making of corrugated boxes. These three ply linerboard grades can be produced using 100% virgin kraft fibres or include recycled fiber content, depending on the clients requirment. Grades range from standard karft liner, high compression liner. Super strength, appearance and performance makes KTPL grade ideal for corrugated boxes as well as speciality, non box applications.

TECHNICAL FEATURES:
- Excellent strength, performance and printability
- Flexible section of grades to meet performance needs with significant box weight reduction
- Product uniformity consistent and reliable performance
- Multiple forestry and fiber sourcing certifications

END USES:
- Packaging
- Corrugated Containers
- Retail Packaging
- Laminations
World-class materials, solutions and networks are of course vital, but the people in our family are the most important factor finding a smarter way forward. An informal corporate culture encourages individuals to contribute new ideas, work together and take responsibility and create value both internally and externally towards partners and customers. In fact without the commitment of our employees and partners, the concept of making paper would not be possible.
# RANGE OF PAPERS FOR THE PACKAGING PEOPLES

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>GRAMMAGE (gsm)</th>
<th>PAPER CHARACTERISTICS</th>
<th>RECOMMENDED END USE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kraft liner board</td>
<td>80 To 450</td>
<td>Clean, excellent strength and high RCT values</td>
<td>Heavy duty corrugated cartons</td>
</tr>
<tr>
<td>Chemical Fluting Paper</td>
<td>80 To 180</td>
<td>High compression strength and FDA approved</td>
<td>Corrugated boxes for food packaging and high strength</td>
</tr>
<tr>
<td>Fluting medium</td>
<td>80 To 350</td>
<td>100% Recycled with high RCT values</td>
<td>Multilayered corrugated boxes</td>
</tr>
<tr>
<td>Core board</td>
<td>160 To 430</td>
<td>High plybond, high stiffness and high RCT</td>
<td>High end core, cones and fibre drums</td>
</tr>
<tr>
<td>Wet strength paper</td>
<td>80 To 150</td>
<td>High burst factor and smoothness</td>
<td>Multiwall sacks, bags and lamination with printing</td>
</tr>
<tr>
<td>Deco lam</td>
<td>100 To 160</td>
<td>High absorbency</td>
<td>Decorative laminates</td>
</tr>
<tr>
<td>Uncoated W.T.K.L</td>
<td>140 To 200</td>
<td>White top with high strength and high RCT</td>
<td>Packaging cartons and boxes with printing on top surface</td>
</tr>
<tr>
<td>Performance kraft</td>
<td>80 To 250</td>
<td>Excellent strength, smoothness RCT and runnability</td>
<td>Corrugated containers</td>
</tr>
</tbody>
</table>

All our products are either 100% virgin or 100% recycled, or mix of virgin and recycled and are available with FSC/PEFC certification.
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Works

PM # 1
350 TPD Coated Duplex Board Plant
Largest producer of coated packaging board in West Bengal

NH-6 (Railway station Ghoraghat),
Bagnan, Howrah-711303,
West Bengal, India
Email: sales@krishnatissues.com

PM # 2
500 TPD High Performance Kraft Liner Plant
Largest paper mill producing Kraft Liner in India

Burdwan Katwa Road
P.O. – Bhatar, Dist – Burdwan
Pin - 713125, West Bengal, India
Email: salespm2@krishnatissues.com

visit us at: www.krishnatissues.com