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SNIPPETS

FOR THE PAPER INDUSTRY

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The year 2022 has been a challenging one for every industry and for some new opportunities. In this challenging environment we should create values and not stress on valuation.

As shared by Mr. Ved Krishna there are great opportunities for the growth of paper industry to become world class. The packaging and tissue segment, in particular, will have a spectacular growth.

Wishing you all a safe, healthy and sustainable new year.

Kishan Khaitan – Executive Chairman

CEO SPEAK



Mr. Ved Krishna

Founder – Pakka Inc.

CAPITALISING ON MAGIC OF CELLULOSE

Nature's building blocks are simple- hydroxyl chains (sugars/ cellulose), amino acids (collagens/ proteins), some minerals and a small band of the periodic table. All chemistry is green (water as solvent) and all energy is sunlight and look at the amazing packaging that it produces! Everything in nature is packaged and all materials are regenerative (give back at the end of use).

Nature's packaging has elements of physiology along with chemistry. Sea kelp (cellulose) is able to be far more elastic and bear huge sea storms by being able to use its elasticity. The major reason for this is that the fibers are aligned at a 60 degree angle instead of an approximately 25 degree angle that the fourdrinier machine enables. The lotus leaf is hydrophobic not just because of the waxy coating it has but also because it has a modular phallic structure on the surface that moves water drops away. Entire trunks of trees get created through sequestration of carbon from the air through photosynthesis. There are so many examples of effective formulations around us and we need to find inspiration.

We, as an organization, have been on the quest of learning from the same and adapting to be able to provide better bio-materials.

In my understanding, calling ourselves 'paper industry' limits our possibilities. Paper is a substrate that can be a medium for communication (graphic, coated, newsprint etc), packaging

(corrugation, liners, grease proof, wrappers, bags etc) and hygiene (tissue, sanitary, non-woven's etc). We need to look at the wider market space and adapt as needs shift so that we remain relevant. We want to make sure that the industry constantly evolves to provide humankind with solutions that help evolution. When we begin to look at the industry instead of the substrate we see the shifts better and can evolve alongside rather than become irrelevant.

I believe cellulose as a material has a huge role to play in the next stage of evolution of humankind and we have to look towards the products we make and the processes we follow. We need to keep working on both.

We, as an organization, feel strongly that an impactful contribution needs to be built and that can only truly happen through scale. We are a very small company with lofty ideas and dreams. It is our desire to grow and enable the industry to collaborate and find more solutions.

We are investing significantly towards research and innovation through our facility in Bangalore under our organization Pakka Impact (PakkaImpact.com). We are building a lab and team that can serve the industry with research in cellulosic chemistry, bio-plastics, biodegradation and fiber exploration. We encourage possibilities of collaboration and joint search through this venture.

We are expanding our manufacturing through organic growth

INDUSTRY NEWS

Complete ban on Supply/Sale/Trading of Coal in Delhi-NCR issued a "Policy to Curb Air Pollution in NCR.

W&F provides specific customer need based solution in Forming fabric with AQUAPRINT brand for customer quality need.

W&F takes necessary fumigation and safety measures in packing of fabric and screens before movement, this ensures safety at consumption end

internationally. We are travelling and exploring possibilities to learn, collaborate and invest. We dream beyond our means but also find that the universe conspires in sending us the right opportunities and talent.

We feel our work is not done by merely providing products and hence we build sustainable partnerships with customers in our compostable division (chuk.in) where we look to provide an end to end solution using a strong technology backbone. We look to collaborate with various material producers across the spectrum and also work on building franchisee manufacturing sites for the products we promote. We look to ensure that the customer has a complete solution right through to composters.

I feel our greatest contribution to the regenerative packaging industry is through enabling solutions for the supply chain, funding and innovations and we do this through our GCAhub.com platform. The idea is that anyone wanting to invest in the space should be able to find solutions, collaboration opportunities and investments to enable the industry to grow. We of course also benefit by growing in knowledge and understanding.

I also realized over time that by casting our net wide I was having very interesting conversation with a wide spectrum of amazing individuals. It was difficult for me to share the

knowledge with my team as well as others and hence we started the Good Garbage.

Podcast. I get an opportunity to learn from numerous inspirational people and now share it with the world. I would definitely encourage all from the industry to be a part of this effort and also provide more ideas and guidance for the effort.

We have also moved the work we do at our foundation to skilling of talent for the compostable packaging industry. We feel this is very important work as no industry can prosper without excellence of talent especially on the shop floor. We now have courses for operators for pulp and paper, boiler, moulded products as well as maintenance functions. I definitely encourage all to connect and check the work being done (PakkaFoundation.com).

All this work is with a single objective in mind to contribute towards a cleaner planet. We feel our work and efforts become so much more meaningful with a clear calling and purpose.

We are a young and enthusiastic team and need lots of guidance as we venture forth. We look forward to your ideas, thoughts, collaboration and encouragement as we keep venturing forth into the unknown.

I wish you all the best for a journey that makes life more fulfilling.

QUOTABLE QUOTE	"Every new beginning comes from some other beginning's end" - SENECA
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SCRABBLE email answers by 25 th Jan '23	Form a word : IS CAR YET PIC GIFV First correct answer will win a gift from Wires & Fabriks (S.A.) Ltd. (Maximum two prizes for one person in a year)
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WINNER DECEMBER 2022	No Correct Answer Answer: SURFACE CHEMISTRY
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?QUIZ email answers by 25 th Jan '23	QUIZ: _____ consist of individual polymers with varying molecular weights. The properties of the polymers depend on the distribution of molecular weights. (a) Monodisperse (b) Polydispersity (c) cellulose chain (d) Synthetic polymer
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WINNER DECEMBER 2022	QUIZ: One can reduce the reducing end of mono- or polysaccharides by using sodium borohydride (NaBH ₄) under _____ conditions at room temperature. (a) Acidic (b) Basic (c) Alkaline (d) Neutral
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Prizes	Mr. Ramakrishna Kambadkone, Production Manager, M/s Gayatri Paper Mills, South Africa Answer: (c') Alkaline
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Prizes	Best / first correct answer received will win one-year subscription to IPPTA Journal (Maximum one prize for one person in a year).
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 Teaser	Got a call from an unknown number to you "Got married", I said "No and You?" The answer came, come home and then I tell you....!!!
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