

News and Views... 
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INDEX

	#IndiaFightsCorona	3 - 5
	INDUSTRY NEWS.....	6 - 7
	INDUSTRY UPDATES.....	8 - 13
	NEW TECHNOLOGIES.....	14 - 15
	PARTNERSHIP OPPORTUNITIES.....	16
	CEO SPEAK.....	17
	MEDIA SPEAK.....	18 - 21
	PAPEREX 2022.....	22
	SOME LEADING COMPANIES AT THE EVENT.....	23 - 27



Over 58 crore jabs administered in India so far

Over 43 lakh anti-Covid vaccines were administered on 21st August across the country, taking the total vaccination count to above 58 crore, said the Union health ministry.

Of the total, 27,77,409 were given the first dose, and 16,15,350 got their second dose during the day. As many as 20,88,547 people among the total, who were given the first dose, are in the 18-44 age group.

Cumulatively, 21,60,58,123 persons in the 18-44 category across all states and union territories have received their first dose and a total of 1,92,54,925 have received their second dose since the start of phase-3 of the vaccination drive.

As of day-218 of the vaccination drive, a total of 43,92,759 vaccine doses were given. As many as 27,77,409 beneficiaries were

vaccinated for first dose and 16,15,350 beneficiaries received the second dose of vaccine as per the provisional report till 7 pm.

Eight states-- Madhya Pradesh, Gujarat, Rajasthan, Maharashtra and Uttar Pradesh, Bihar, Karnataka and Tamil Nadu -- have administered more than one crore cumulative doses of Covid-19 vaccine in the 18-44 age group.

Second dose

The central government said earlier this week that over 3.86 crore people did not get their second dose of anti-Covid vaccines -- Covishield and Covaxin -- within the stipulated period of time.

The Covid-19 vaccine administration cell of the Union health ministry said it is recommended the second dose of Covishield be taken within 84-112 days after the first, while in the case of Covaxin the gap should be between 28-42 days.

"The total number of vaccinees

(beneficiaries) who got their first dose of Covishield Vaccine but did not get their second dose within the stipulated period of time as prescribed by the Govt of India as per the Due Report of Co-WIN portal is 3,40,72,993 (data as on 17th August 2021)," the response said.

It further said the total number of beneficiaries who got their first dose of Covaxin but did not get their second within the stipulated period of time as prescribed by the government as per the due report of in Co-WIN portal is 46,78,406 (data as on 17th August 2021).

– *Mint*



UP leads India's Covid vaccination drive with more than 6 crore doses administered

With more than six crore doses of Covid-19 vaccines administered, the Uttar Pradesh government has left behind all other states including Maharashtra, Delhi, Andhra Pradesh, West Bengal and others.

Apart from vaccination, Uttar Pradesh is also the state that has conducted the most number of Covid-19 tests. Implementing the triple-T strategy of targeting, testing and tracking, the Uttar Pradesh government seems to have managed to bring the number of Covid-19 cases in the state under control.

Under its massive vaccination campaign, Uttar Pradesh is administering vaccines at the mini cluster-based block level. Over the past two months, the pace of vaccination has rapidly increased in the state.

On August 3, the state hit the five crore mark in terms of vaccine doses administered. In

just 14 days, Uttar Pradesh crossed the six crore mark on August 17. The state government has set itself the target of administering ten crore doses by August 31. The Uttar Pradesh government recently broke the record for highest number of vaccines administered in a single day with 29.52 lakh doses given in 24 hours.

Talking about the change in the government's vaccination strategy, beneficiaries on-ground said that slots are now easily available.

Salman, 28 years of age, said he got his appointment for the second dose very easily while 23-year-old Nabila stated that the number of centres had increased rapidly in Uttar Pradesh. She said the vaccination process is now smooth even though there are big crowds at the centres.

The major challenge facing the state government now is to ensure that the number of people who have received their second dose rises rapidly. While the first dose has been given to more than five crore people, the second dose has been administered to only 97 lakh people as of August 19. That does not even comprise five per cent of the state's population.

For comparison's sake, Gujarat has managed to completely vaccinate 1.2 crore people. The state has a total population of 6.23 crore people and 4.19 crore doses of the vaccine have been given so far.

Speaking to India Today, Uttar Pradesh vaccination officer Dr Ajay Ghai said, "The mini cluster-based approach and greater awareness in rural areas have helped to achieve vaccination targets. We plan to

further expand the drive and vaccinate 80 per cent of the population by the end of the festive season. Our major focus is complete vaccination. For that, the only-second-dose-on-Saturdays drive has been announced."

Responding to a question in the Assembly, state health minister Jai Pratap Singh had said, "As of August 3, 32 per cent of the total population of adult citizens in the state have been given their first doses and 5.9 per cent have received both doses. The vaccination drive will be conducted on the basis of the availability of doses."

Jai Pratap Singh said, "We have demanded five crore doses per month. We are getting hardly 7-8 lakh doses per day. Sometimes, we get only five lakh doses. Doses are being received as per production. The central government has so far given us more than six crore doses on the basis of our demand."

However, the Opposition has raised questions on the low figures of completely vaccinated people in the state.

Samajwadi Party leader Abhishek Mishra said, "The government is hiding figures. In comparison to other states, the pace of vaccination is very slow. Instead of making records, the focus should be on complete vaccination."

– India Today



Zydus Cadila's needle-free COVID-19 vaccine approved in India, said to be safe for kids over 12; Here's everything you need to know

On 20th August, the Drug Controller General of India (DCGI) granted emergency use approval to Zydus Cadila's needle-free vaccine, ZyCoV-D, the world's first ever DNA based vaccine against the SARs-COV-2 virus. Early last month, the Ahmedabad-based pharma-giant had sought permission from the government, stating that it had conducted the largest clinical trial for the vaccine in India.

Currently, Bharat Biotech's Covaxin, Oxford-Astrazeneca's Covishield, Russia-made Sputnik V, Moderna vaccine and Johnson & Johnson's Janssen vaccine have received an approval for the Emergency Use Authorization (EUA), which makes ZyCoV-D the sixth COVID vaccine to be approved in India.

Zydus Cadila's ZyCoV-D is a 'plasmid DNA' vaccine that uses a non-replicating version of a DNA molecule called plasmid, which helps prepare a harmless version of the spike protein present on the SARS-COV-2 membrane.

Also known as the third-generation vaccine, DNA-based vaccines use engineered DNA to induce an immune response against the virus.

According to the World Health Organisation (WHO), this "radical new approach" offers several advantages over traditional vaccines, which include "improved vaccine

stability, the absence of any infectious agent and the relative ease of large-scale manufacture."

Zydus Cadila's COVID vaccine is very different from other intramuscular vaccines available in and around the world. While all vaccines have been developed to fight the SARs-COV-2 virus, the mode of administration and the number of doses may differ, especially in respect to ZyCoV-D vaccine.

That said, here are some of the differences to note and how it compares with other COVID vaccines.

As compared to other COVID vaccines currently being administered in India, ZyCoV-D is a three dose regimen. According to Zydus Cadila, the three doses of ZyCoV-D are to be administered on day 0, day 28, and day 56. Reportedly, the company is also working on a two-dose vaccine.

In opposition to other COVID vaccines, Zydus Cadila's coronavirus vaccine is a needle-free jab, which will use the 'Jet Injector' technique to administer the three doses. Instead of injecting the drug by piercing the skin with a needle, the vaccine will use high-pressure to inject the liquid directly through the upper layer of the skin and into the underlying tissues.

In the world of vaccine development, needle-free vaccines are not a new discovery so to say. It is an old technique, first demonstrated in 1866. This method of vaccination was also used during the 1960s for smallpox vaccination drives.

With the help of needle-free vaccines, side effects like pain at the injection-site,

swelling, rash and arm soreness can be avoided, which is very prevalent in intramuscular injections.

As per the interim analysis from Phase 3 clinical trials, in over 28,000 volunteers, Zydus Cadila's COVID vaccine has shown an efficacy rate of 66.6 per cent for symptomatic RT-PCR positive cases.

Following the third dose of the vaccine, it was noted that no moderate case of COVID was seen in vaccine beneficiaries.

In addition, there were no severe illness or death reported in people who had received the second dose of the vaccine. However, the data from the phase three trial is not yet peer-reviewed.

With respect to the current development, the Chairman of the Zydus Group, Pankaj R Patel said, "We are extremely happy that our efforts to put out a safe, well-tolerated and efficacious vaccine to fight COVID-19 has become a reality with ZyCoV-D. To create the world's first DNA vaccine at such a crucial juncture and despite all the challenges, is a tribute to the Indian research scientists and their spirit of innovation. I'd like to thank the Department of Biotechnology, Government of India for their support in this mission of Atma Nirbhar Bharat and Indian Vaccine Mission COVID Suraksha."

ZyCoV-D is the first vaccine candidate found to be eligible for use for children above the age of 12.

Bharat Biotech's Covaxin is also in the running for developing effective vaccines for children. The vaccine is currently under trial for use among the 2 to 18-year-old age

group.

According to the manufacturers, the vaccine will be made available within 45 to 60 days after getting the authorization. Reportedly, the company is set to manufacture 0 to 12 crore doses annually in the initial stages.

The pricing of the vaccine is yet to be revealed. As per Patel, "It is too early to comment on the pricing. That discussion is yet to happen. We will announce the price before the commercial launch of ZyCoV-D."

– **Times of India**



INDUSTRY NEWS

Economy recovering at fast pace from recent lows of April, May: PHDCCI

India's holding of US government securities surged by more than USD 20 billion in just three months ended June to USD 220.2 billion amid rising foreign exchange reserves. Compared to June last year, when most of the economic activities were ravaged by the coronavirus pandemic, the exposure of India to the US Treasury securities jumped by nearly USD 40 billion. Latest data from the US Treasury Department showed that India, with holding worth USD 220.2 billion at the end of June this year, is the 11th largest holder of these securities while Japan has the most exposure at little over USD 1.277 trillion.

India has been steadily hiking its exposure to the treasury securities since March when it was at USD 200 billion. In April, the holding rose to USD 208.7 billion and then to USD 215.8 billion at the end of May.

In February, the country's exposure stood at USD 204.4 billion, a steep decline from USD 211.6 billion in January. The holding was at USD 182.7 billion at the end of June 2020.

Unmesh Kulkarni, Managing Director Senior Advisor at wealth management major Julius Baer India, said the rise in India's exposure to US treasuries needs to be seen in the context of the continuous build-up of the country's forex reserves.

"US Treasury yields, after bottoming out around the middle of last year and rising steadily thereafter, have been on a decline

since May'21, while RBI has been gradually raising its exposure since April'21," he told PTI.

Forex reserves of India stood at USD 619.365 billion in the week ended August 13 after touching a record high of USD 621.464 billion in the previous reporting week.

Kulkarni noted that domestic liquidity in the Indian money markets has been ruling high, and RBI has been trying to normalise the liquidity situation through variable rate reverse repo auctions.

"The increasing forex reserves further add to the domestic rupee liquidity, and therefore it makes sense for RBI to drain a part of the surplus liquidity by purchasing forex assets.

"Among forex sovereign assets, the US dollar is generally the more preferred currency of the RBI; contrary to market expectations, the US dollar has been stable in the current calendar year so far, and has in fact appreciated 4.1 per cent (Dollar Index) and 1.8 per cent against the INR," he said, adding that apart from RBI, it is learnt that Indian commercial banks have also started deploying some of their surplus funds in overseas sovereign papers.

In terms of US Treasury securities' holding, Japan is at the top followed by China with an exposure of USD 1.061 trillion at the end of June.

At the third spot was the United Kingdom with holding worth USD 452.9 billion, followed by Ireland (USD 322.9 billion), Luxembourg (USD 301.8 billion), Switzerland (USD 270.1 billion), Brazil (USD 249 billion), Cayman Islands (USD 244.8 billion), Taiwan (USD 239.4 billion) and Belgium (USD 228.5

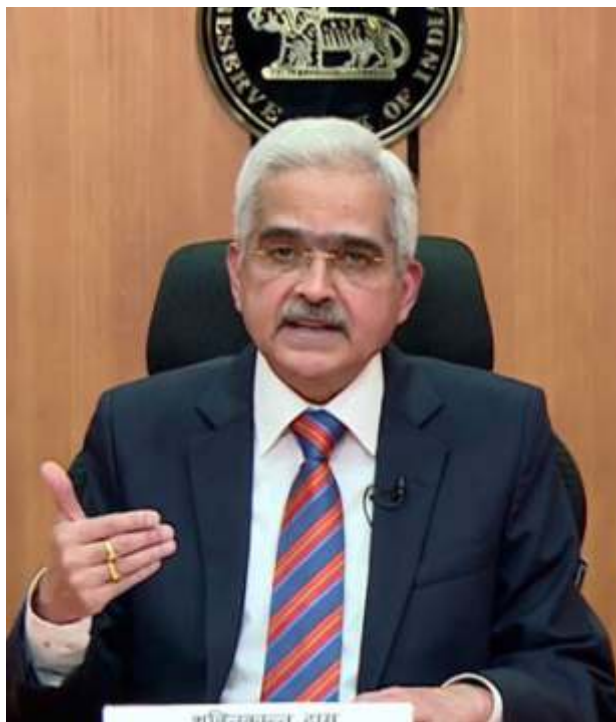
billion), as per the data.

Nimish Shah - Chief Investment Officer - Listed Investments at wealth advisory firm Waterfield Advisors said RBI and banks have started to increase exposure and invest surplus in US treasuries on the back of revised rules for investing in offshore sovereign securities.

"Strength of the US economy and currency when compared to other countries make US a preferred destination. Banks having hit the limit for investments in unlisted investments, including foreign sovereign bonds, were pushing for increasing the limits. This increase in limits could also help stabilise forward rates," Shah said. PTI RAM ANU ANU

– *The Economic Times*





Monetary policy support to India economy should continue - MPC minutes

India needs to continue monetary policy support for the economy while remaining watchful of inflationary pressures, Reserve Bank of India (RBI) Governor Shaktikanta Das said in the minutes of the latest monetary policy committee (MPC) meeting. "Macroeconomic policies have to be carefully nuanced by making judicious policy choices," Das wrote in the minutes of the MPC's August meeting released on Friday. "Continued policy support with a focus on revival and sustenance of growth is indeed the most desirable and judicious policy option at this moment."

Earlier this month India's Monetary Policy Committee (MPC) held rates steady and said it would continue to retain its accommodative policy stance until growth has revived on a sustainable basis, while ensuring inflation remains within target going ahead.

The mandate requires RBI to target a medium-term inflation rate of 4% while trying to keep it within 2% and 6% at all times, but retail inflation has breached the upper bound of this band twice so far in 2021.

Most MPC members cited concerns about inflationary pressures in the economy and rising household inflation expectations, but felt it was too early to increase the repo rate.

"The MPC's current mandate is to set the policy repo rate and the stance of the monetary policy," said Mridul Sagar, RBI executive director.

"Getting the timing and sequence of policy change wrong and inviting policy reversals later can result in costly increase in output and inflation volatility," Sagar added.

Deputy Governor Michael Patra wrote: "The highest priority now is to revive growth along a sustainable trajectory that becomes compatible with the inflation target as the pandemic recedes."

The lone dissenter on the accommodative stance, MPC member Jayant Varma, said the current reverse repo rate was inappropriate and should be brought closer

to the repo rate to anchor inflation expectations better. [read more](#)

"While growth concerns dominated the MPC's August 2021 minutes, the underlying unease related to inflation was also palpable," said Aditi Nayar, chief economist at rating agency ICRA.

"The vote for continuing the accommodative monetary policy stance is expected to remain non-unanimous in the October 2021 policy review as well, with a more distinctive shift in the tone in the December 2021 policy review," Nayar added.

- Reuters



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This is a regular program which will cover Industry Updates, Launch of New Technologies, Partnership Opportunities, Industry Views & CSR activities. The purpose of this program is to keep customers up to date with developments in the Industry.

INDUSTRY UPDATES



Coca-Cola HBC Introduces Paper-Based Carton Solution to Larger Multipacks

In partnership with Graphic Packaging International, Coca-Cola HBC's larger multipacks are now available in a new fully enclosed paper-based carton, which replaces previously-used shrink-wrap. Both KeelClip and Coca-Cola HBC's larger multipacks packaging types are designed and developed by Graphic Packaging; which predicts that, in total, transitioning to these new secondary packaging solutions will eliminate 500 tonnes annually of hard-to-recycle shrink-wrap plastic. Coca-Cola HBC has also introduced prominent on-pack messaging in a bid to communicate its sustainability message directly to consumers, highlighting that the packs are recyclable. The company hopes that what it describes

as the "more premium feel of the pack" will enhance the brand and elevate shelf appeal within the multipack aisle, improving point of sale presentation and the consumer experience.

To support the production requirements of the venture, Graphic Packaging has installed a QuikFlex machine in Coca-Cola HBC's plant in Lisburn, Northern Ireland, producing a variety of configurations from four- to 24-packs.

– *Paper Mart*

Satia's additional capacity of 100,000 MT to come into production by the end of Q3 FY22; Revenue increased by 53 percent in Q1

One of the largest Wood and Agro based paper manufacturers in India with a fully integrated manufacturing facility comprising of upgraded paper machines, agro and wood pulping plant, chemical recovery and power generation plant – Satia Industries Ltd. (SIL) is all set to start commercially its proposed additional capacity of 1,00,000 MT by end of December 2021.

Release the Q1 results of FY22, Mr. R. K. Bhandari, Joint Managing Director said, "at the end of last quarter, the paper industry was expecting huge surge in demand from the expectation of reopening of educational institutions. But this expectation was impaired by the outbreak of 2nd wave of COVID-19 which brought along with it

extended lockdowns and deceleration of economic activity. Whilst W&P paper industry was under stress and even the most established players were operating at lower capacity utilization, SIL emerged as a true leader with average capacity utilization of 124% % and higher price realization for Q1 FY22 thanks to its marketing strategy.

Our ambitious INR 5000 mn expansion plan is progressing as expected. We expect the additional capacity of 100,000 MT to come into production by the end of Q3 FY22. A total of over 4000 mn has been spent on the development of the new project, out of which 2500 mn is disbursed by the Banks and rest is financed from Internal Accruals.

Further, Table cutlery machines erection is complete and mechanical trials are going on and we expect to commercially start operations before end of current quarter.

We are very confident that our capex plans, strategy of venturing into new high growth potential green products and investing in latest modern technologies promise to unlock great benefits for all our stakeholders in future.

Our govt's reassertion on 13th August 2021 to ban Single-Use Plastic items from July 1, 2022 will open new opportunities for the Paper industry as a whole and endorses our futuristic decision to enter into Cutlery segment well in time."

Satia Industries' total revenue from operations increased by 53% from INR 125 crore in Q1 FY21 to INR 191 crore in Q1 FY22 owing to higher capacity utilization of 124% against 87% in Q1FY21. Net profit stood at INR 21.99 Cr in Q1 FY22, compared to 11.56

Cr in Q1 FY21.

Mr. R. K. Bhandari further said the statement that, despite Covid restrictions, SIL's business continues to see persistent traction from state textbook boards and open market. We have been able to record a further growth in SIL's production level of 32627 MT in Q1 FY22 as compared to the production of 22809 MT in Q1 FY21.

In continuation of SIL's robust order book status, as shared in SIL's earlier quarterly updates, SIL has orders in hand for over 30 days.

SIL's key product sold during the quarter was Maplitho Paper for State Text Book Board besides Snow White Paper, Super Snow-White Paper and more than doubled the share of Copier and Cup stock paper over the Q1FY21.

"The erection work of 4th paper machine is almost 85% complete. Our Multifuel, 75 ton steam per hour capacity, boiler has been commissioned and presently we are burning rice straw as fuel in this boiler which is cheaper by over 50% as compared to rice husk. This initiative of the company has gone a long way in curbing air pollution which would have been caused by burning of over 125,000-ton rice straw by farmers in their farms without any protection of Electrostatic precipitator," Mr. Bhandari said. Civil work of wood pulping plant is almost 80% complete, and it is expected to partly commence operations by end of September 2021. SIL has installed two Table cutlery machines with an annual capacity of 2000 tonnes. The erection and installation work is completed and commercial production will

commence from Sept., 2021.

Zume, a US-based global brand, engaged in producing and outsourcing of moulded table cutlery products has agreed to share its patented customized designs with SIL for manufacturing and marketing packaging product as desired and demanded by the global market. The expected average realization will be higher by 40-50% as compared to local manufacturers' market realization.

– The Pulp and Paper Times

Nachiketa Paper is gearing up to bang the market with a mega capacity of high RCT paper in 2022

Corrugated packaging industry has been adequately meeting the packaging requirements of the country by successfully substituting wooden and plywood boxes, thereby contributing to environmental protection and the ecological balance.

The reusable and recyclable nature of corrugated boxes reduces packaging waste. This has resulted in an increased demand for corrugated boxes in various industries such as food & beverages, building & construction, clothing, freight forwarding, logistics, cosmetics & personal care, and pharmaceuticals.

"On the basis of application, the market can be classified into writing and printing paper, paper board and Kraft paper for packaging and newsprint. Of this, the biggest share is



accounted for by the paper board and Kraft paper packaging segment, which is expected to grow on the back of rising growth in the e-commerce sector. The growing use of paper in food packaging is also expected to strengthen off-take," said Mr. Harish Jindal, Managing Director of Nachiketa Paper Limited.

Talking to The Pulp and Paper Times, Mr. Jindal exclusively discloses the expansion plan of the company, "the projection of kraft paper demand in coming years is very prominent, and we expect to have a good return on our investment. We have planned to invest approx. INR 55 crore on paper machine –III (PM) and power plant installation.

"First we will complete the installation process of power plant of 5 MW in phase –I and then embark upon the erection of machinery of PM-III from December 2021

onwards," Mr. Jindal said.

Nachiketa Paper is going to install a 200 TPD new paper machine of high RCT paper production. "We have already bought the most of the machinery from elite suppliers, like head box is from Europe, Pulp mill is supplied by Yunda Machinery, China and Dryers is also from China.

"PM-3 will be a triple wire machine with all critical components including automation to get high RCT quality paper. We are expected to roll out the production on new machine in April 2022," Mr. Jindal said.

The Kraft paper market is projected to grow from USD 15.6 billion in 2019 to USD 18.7 billion by 2025, recording a CAGR of 3.0% during the forecast period. The rise in demand for Kraft paper in various end-use industries, such as food & beverages, building & construction, cosmetics & personal care automotive, and consumer durables, is a key factor that is projected to drive the growth of the Kraft paper market across the globe. In addition, factors such as rapid urbanization across regions and the recyclability feature of Kraft paper are projected to contribute to the growth of the Kraft paper market during the forecast period.

Currently, Nachiketa Paper is producing 250 TPD paper. "We are manufacturing Absorbent Kraft on PM-1 and Core Board on PM-2. We are planning to produce 120 to 250 GSM kraft paper for the manufacturing of corrugated Box and paper carry bags on PM-III," Mr. Jindal informed.

The deckle of PM-III is 3.1 meters (Finished)

and the paper mill is also planning to redesign its wastewater treatment plant to absorb the new paper machine's waste water.

The booming Indian economy and flourishing organised retail have raised the expectations that consumption of corrugated packaging will begin to expand again as the number and volume of goods packaged in corrugated increase.

– *The Pulp and Paper Times*

DS Smith to Explore Use of Seaweed as Alternative Fiber Source for Paper and Packaging

As part of its EUR 117 million sustainability-focused R&D program, DS Smith is exploring how seaweed fibers can be used as a raw material in paper and packaging products.

The company says that this move could see it use seaweed across its packaging network as an alternative fiber source to wood. Following initial testing, DS Smith is also exploring the potential of seaweed to act as a barrier coating to replace petroleum-based coatings.

Thomas Ferge, paper and board development director at DS Smith, commented: "As a leader in sustainability, our research into alternative raw material and fiber sources has the potential to be a real game-changer for our customers and consumers who increasingly want products that are easy to recycle and have a minimal impact on the environment.

"Seaweed is one of the many alternative natural materials we're closely looking at, and while most people probably associate it

with the beach or as an ingredient in sushi, it could have some exciting applications for us to help create the next generation of sustainable paper and packaging solutions." Given its wide range of apparent uses, seaweed in manufacturing is a burgeoning market. The European seaweed industry alone is predicted to be worth almost EUR 9.4 billion by 2030, generating some 115,000 jobs.

The seaweed project is part of DS Smith's EUR 117 million Circular Economy R&D programme, which was announced earlier this year. Its research into natural fibers also includes other natural materials such as straw, hemp, miscanthus, and cotton, as well as more unusual sources such as the daisy-flowered cup plant and agricultural waste like cocoa shells or bagasse – the pulp fiber left over after sugarcane is processed.

– *Paper Mart*



**Seshasayee Paper and Boards
expanding its Product Mix to minimize
the pressure of demand on WPP;
earned INR 18.56 Cr profit after tax in Q1**

With the expectation of Demand to pick up and grow by 11-15% year on year in fiscal 2022 with schools, colleges and office spaces are expected to open and drive the demand, Seshasayee Paper and Boards Limited (SPBL) expects a stronger Q3 and Q4 of FY 21-22 with a large set of our population getting vaccinated by then and general economic mood turning positive.

“Slowdown in the Indian economy, coupled with poor offtake in export markets due to the pandemic situation, had resulted in significant reduction in demand for Printing and Writing Paper, key segment in which the Company operates. Due to these factors, Company witnessed a huge drop in revenue and profits during the financial year ended March 31, 2021,” Mr. N Gopalaratnam, Chairman – SPBL said during 61st Annual General Meeting of the company.

During Q1 of fiscal 21-22, its revenue stood at INR 218 crore against INR 139 crore in the year-ago quarter (Q1 FY 20-21), while profit after tax was INR 19 crore against INR 18 crore.

Replying to a shareholder question Gopalaratnam says, our dependence on Printing and Writing is high and that is where our margins are high. This segment is not going to be permanently under stress. Lot of efforts have been taking by the Government on education; new education policy has been developed. Worldwide, India is considered to

be the main country for printing and writing paper. This is not the end of the growth of Printing and Writing Paper.

“For 2-3 years, the impact of Covid will be there. We are now creating alternate products, just to be in those markets. We already have a large product mix and we are expanding this further to include Kraft and multi-layer boards. Product mix will be altered depending on demand,” he said.

On the question of demand environment and Sales realization, Mr. Gopal says, Demand is more muted now. In fact, Our sales was more than 100% of our capacity in March. April it came down to 70%; May at 42%; June picked up and moved to 70%. Currently, we would be at about 80%. Our Production levels are around 85-90%. Similarly, Sales realization has also started coming down. We have been impacted by significant increase in cost of input materials like wood, pulp, coal, waste paper. On top of it, there is lack of demand. We have a lot of challenges.

A shareholder asks that what is the reason that other countries created scale benefits with mega-size plants but in India, industry is still fragmented?, Mr. Gopal replies that reasons applicable to agro-industries is also applicable to the integrated wood mills. We have a very poor raw material base. Our access to good quality raw materials is a problem. Wood based Paper units individually meets 95% of its wood requirements thro’ Tree farming. These happen in small scale in marginal farmers lands. Their prices are exorbitant when compared with international prices. We

spend about 120 US \$ per t of wood in India, whereas outside India, it is about US \$ 60. Proposal for allocation of waste land to paper mills for wood plantation, has been pending with various Governments for a long time.

“We have not allowed the machines to shut as much as the others were doing. We use them somewhat beneficially to produce pulp board. Definitely the strategies have helped in delivering superior profits,

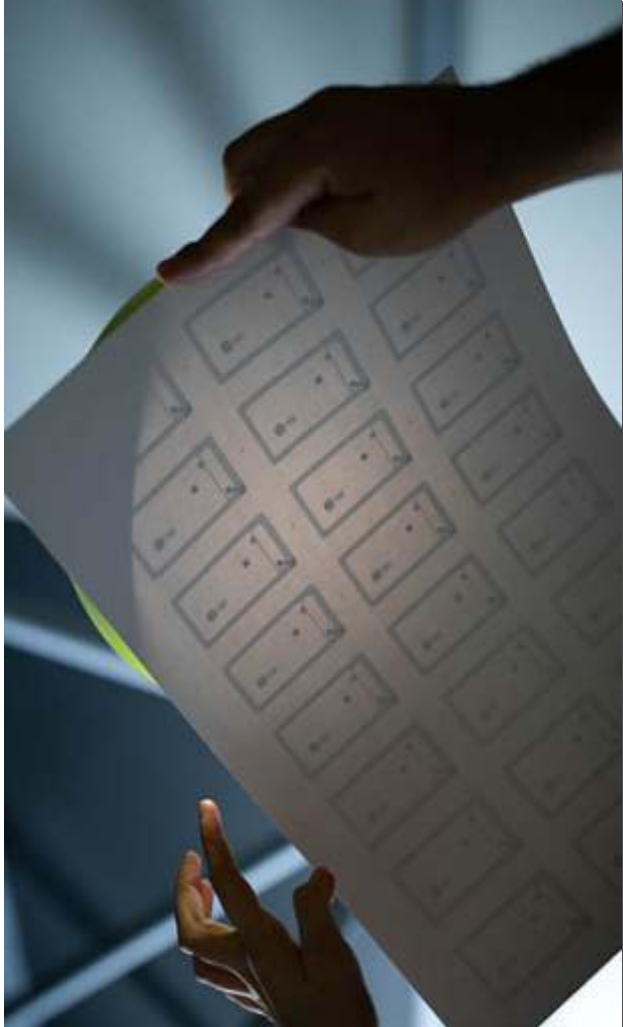
“On next Growth project of SPB – Covid has given confusing trends. We have to wait for 3-4 months. Anyway, our next growth strategy will be in Unit – Tirunelveli,” Mr. Gopalaratnam informed the shareholders.

Mr. Gopalaratnam looks optimistic on the revenue side, on completion of MDP-III, SPBL might be at Rs 1500 crores with better margins.

- The Pulp and Paper Times



Sappi and ISBC Develop New Smart Paper With Embedded RFID Chips



Sappi and ISBC have collaborated to present an innovative new smart paper with embedded RFID chips. The chips are embedded into the paper sheets causing no effect over the paper surface – it remains flat and smooth.

The smart RFID Paper supplier was looking for an alternative to plastic for smart printing and Sappi's Swiss Matt paper – used mostly as an inkjet paper for large-format printing – was settled on due to its white surface, print results, and scratch- and water resistance.

The companies also report that the product is as easy to print as a regular sheet of paper, reportedly making it a cost-efficient solution for printers.

Another apparent advantage of the 'sandwich product' is that it can be printed with various kinds of printing techniques and machines – therefore eliminating in-house development work and avoiding investments in new equipment, software, and business processes.

The desired information can simply be transferred to the paper-embedded RFID chip: for the encoding process, ISBC has developed a special encoding machine and training materials.

In terms of potential applications, the solution can be used for contactless tickets on buses, trains, trams, and other means of transportation, as well as for prepaid cards and gift cards, business cards, and access control, including key cards for hotel rooms, ski passes or admission wristbands for events and trade fairs.

The paper-based sensors and labels can also be integrated into diplomas and other certificates to verify document authenticity. Conventional postcards can also be enhanced by integrating an RFID tag with interactive URLs.

– *Paper Mart*

With the aim of increasing sustainability and efficiency, DS Smith has replaced forklifts at its Kemsley plant in the UK with automated guided vehicles (AGVs).

Kemsley has a long history of adopting the latest technology. When it was originally built in 1924 its four paper machines were the largest in the world. Today the mill is the UK's biggest recovered fiber-based paper operation and the 2nd largest in Europe with an annual production capacity of over 840,000 tonnes.

The all-electric Rocla vehicles, supplied by Mitsubishi Logisnext Europe Oy, operate 24/7 and perform a variety of tasks around the warehouse, including collecting reels from the production conveyor, storing them, and picking them for orders.

When the AGVs aren't tasked with work, they automatically switch to 'housekeeping' mode, rotating stocks in order of age to maximize warehouse capacity.

The robots, which have an average lifespan of 12 years, can reportedly transport paper reels safely around the warehouse at speeds of up to 8mph. They operate with zero local emissions and when their battery level drops to 30 percent, they complete their current task before going to the 'automated battery exchange station' where they choose the optimum charged battery as they get ready for another 10-hour shift.

The recent boom in e-commerce has increased the demand for papers and packaging. Every day, around 2,200-2,400 tonnes of paper leaves the Kemsley mill and so it's critical that the team has the latest

innovations to benefit people, customers, and the environment.

In July of this year, DS Smith announced it had partnered with global industrial technology company Trimble to advance digitalization at its paper mills across Europe, following a successful trial at Kemsley of its data mining platform, Wedge.

– **Paper Mart**

IIT Roorkee Develops Food Packaging Paper From Pine Needle Waste

In a move towards sustainable food packaging, researchers at IIT Roorkee have found a way to address the issue of plastic pollution caused by single-use plastics used in the food packaging industry. They have developed an ethylene scavenging functional paper from pine needle waste. Also, the pine needles contain 41 percent cellulose and have high cellulosic content.

As a matter of fact, there is a huge quantity of these leaves in pine forests every year, which dry up and pose a fire hazard to the forests. The net annual pine needle waste yield in the state of Uttarakhand is about 1.3 million tonnes.

Researchers have utilized the pine needles for developing functional papers and make contributions to sustainable development goals (SDGs). As per the report, the paper-based product can scavenge ethylene gas owing to the porous structure and active compound in the paper.

For this project, Professor Kirtiraj K Gaikwad and Ph.D. research scholar Avinash Kumar

at the Department of Paper Technology, IIT Roorkee, have turned to find an environment-friendly substitute for food packaging materials.

The project has been funded by the Department of Science and Technology (DST). It is also recently published in the Industrial Crops and Products (an International Journal).

– **Paper Mart**

KVIC Gets Patent For its Innovative Plastic-Mixed Handmade Paper

Khadi and Village Industries Commission (KVIC) has secured Patent registration for its innovative Plastic-mixed Handmade Paper developed to reduce plastic menace from nature. The patent certificate was issued to KVIC's Kumarappa National Handmade Paper Institute (KNHPI), Jaipur, on 2nd August 2021, by the Controller of Patent, Intellectual Property of India. The idea of developing plastic-mixed handmade paper was invented in September 2018, and in just two months, i.e. in November 2018, the project was executed by the team of scientists at KNHPI.

The plastic-mixed handmade paper was developed under Project REPLAN (Reducing Plastic from Nature). The invention is aligned with the Prime Minister's call for fighting the menace of single-use plastic.

Granting of this patent is a big recognition of KVIC's unique innovation which is unprecedented in the world. The production of waste-plastic mixed handmade paper is likely to serve the twin objectives of

protecting the environment alongside creating sustainable employment.

Nearly 2640 handmade paper-making units in the country under KVIC and State Khadi Boards have the potential of clearing approx 3000 MT of waste plastic from nature every year. At the same time, it can also create thousands of new jobs like the collection of waste plastic, cleaning, and processing. It is, therefore, an apt model of sustainable development. KVIC will also soon begin training entrepreneurs in making plastic mixed handmade paper and share technical know-how with the domestic paper industry. The technology developed by KVIC uses both high & low-density waste polythene that not only adds extra strength to the paper but also reduces the cost by up to 34 percent. The product is recyclable and eco-friendly. KVIC has developed products such as carry bags, envelopes, files/folders, etc. using plastic mixed handmade paper. So far, KVIC has sold over 13 lakh plastic mixed handmade paper carry bags utilizing nearly 40 MT of waste plastic of Jaipur city while generating revenue of nearly INR 1.30 crore.

– **Paper Mart**



NEW TECHNOLOGIES

Asia Pulp & Paper (APP) Sinar Mas / Great Divine Pulp And Paper (India) Private Limited

Foopak Greaseproof Paper

Foopak greaseproof paper is formulated with oil protection system that is impermeable to oil/grease and moisture, greaseproof paper is safe to be used for various direct food contact packaging applications. Available in kit level 1-9.

Product features :

- Hygienic protection during cooking and baking
- Excellent grease & heat resistance, certified for dry and fatty foods at temperatures up to 220°C
- Biodegradable, compostable, and recyclable
- Excellent run ability and quick adhesion of glue in paper bag making
- Printable by flexographic and offset printers
- Free of Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS)
- Comply to BFR XXXVI and XXXVI/2, US FDA, Halal

Product ranges :

30, 32, 35, 38, 40, 45, 50, 60 gsm

End applications :

- Fast food bags and pouches for french fries, burgers, wraps, hotdogs, sandwiches, etc.
- Bakery bags for wrapping and handling of pastries.
- Packaging for butter and margarine.
- Cheese wrap and interleaves, pizza box liners.



Foopak Baking Paper

Product features :

- High grease barrier, paper removed the need of grease in oven trays and tins, and even in frying pans
- High temperature resistance (up to 220°C) and excellent heat stability
- Hygienic protection during cooking and baking
- Environmentally friendly, biodegradable and compostable
- Comply to BFR XXXVI and XXXVI/2, US FDA, Halal

Product ranges : 40 gsm

Foopak Slip Easy Paper

Foopak grease proof slip easy is an extension of Foopak grease proof paper, specially designed for cooking and baking with slip easy property with adequate smoothness and low porosity. Special treatment of the paper surface enables excellent performance while converting in cup cakes on high speed machines.

Available in kit level 0, 1-3, 6-7, and 8-9

Product ranges :

35, 38, 40 gsm



Enza MF Machine Finished Paper

Enza MF is an uncoated paper with machine finished, engineered for excellent smoothness and strength properties. It features a high folding endurance and good dimensional stability. Superb runnability allows for trouble-free converting processes. Enza MF is available in shade Sinar Royal White (93% brightness)

Product Ranges :

100, 120 gsm **END APPLICATION**

- Shopping Bag
- Groceries Bag
- Paper Straw
- Cone Cup
- Disposable Drinking Cup
- Liners

FEATURES & BENEFITS

- Good smoothness
- Good strength in tensile, tearing and bursting
- High folding endurance
- Good dimensional stability
- Comply with FDA standard and BFR XXXVI for direct food contact
- Good runnability In converting processes.



Impressions Pindo 2000 NCR

DESCRIPTION Impressions Pindo 2000 is a premium quality carbonless paper which combines excellent printing performance with the best intensity. Its appearance and performance is guaranteed to satisfy even the most demanding end users.

APPLICATION

1. Business Form
2. Pre Printed Form
3. Cash Register Roll
4. Receipt
5. Bank Slip

BENEFITS

Excelent Intensity up to 6ply - 100% Virgin Pulp - Smooth run-ability for efficient printing process Systematic production management to ensure consistent quality - Sufficient production capacity to supply globally

Impressions Ph® 2000 Carbontess paper is from Pindo Deli, one of the lowest carbontess manufacturers in the world. The mill has achieved the wanly management system (ISO 9001) and environmental management system p5014000 certification awarded by the SGS-PCS in the UK and is regularly audited for compliance. The mitt is ECO lobeicertined and equipped with advanced SAP system, whkh Mks soles. PrOdtkekft finance and delivery system altogether to ensure that we meet with our global customer requirements



Paperline Signature [Premium Performance Paper]

Paperline Natural Specifications

PAPERLINE GOLD Photocopy Paper is a high-quality paper product that you can use as additional office equipment. This paper is made of high-quality material and has the right thickness, so it is stronger and not easily torn. This paper is suitable as a paper for copying machines in your area. Present in various sizes, this paper is ideal for you to make choices for the needs in your place.

Salient Features

Eco-Friendly paper
Consistent performance
Precision cut edges for trouble free performance
GSM: 70/75/80/85
Dual side printability
Size: A4 (210x297mm) / FS
Elemental chlorine free
Available in 75GSM (color copier)
No dust copy paper
Pallet packing also available
High smoothness

PARTNERSHIP OPPORTUNITIES

There are many different ways of benefitting from the Paperex exhibition.

You can increase your company's exposure by becoming a Partner of the show, advertising in the exhibition's promotional materials, or simply visiting the show and gaining first-hand information about the new developments in the market and latest technology advancements. Branding gives an excellent opportunity to stand out from the crowd, reinforce, enhance and establish corporate visibility amongst the targeted audience. Branding is a great way to reinforce your brand message with benefits including:

- Enhance your leadership status
- Educate and inspire a targeted audience with your products and services
- Raise brand awareness and create preference to a targeted audience
- Build leadership status in the industry
- Create positive PR and raise awareness of the organisation as a whole
- Build brand positioning through associative imagery
- Create internal emotional commitment to the brand
- Provide innovative solutions to the industry
- Provide revenue generating ideas



CEO SPEAKS



Douglas T Dietrich
Chairman & CEO, Minerals Technologies Inc

2020 was a test of our company's strength and resolve. In the face of difficult circumstances, we approached each day guided by our core values with the top priority focused on protecting the health, safety, and well-being of every MTI employee. As the COVID-19 pandemic affected how we work and live, MTI persevered and took important steps to invest in our business for our long-term success. In our 13th Annual Sustainability Report, we share many highlights of how our employees delivered for each other, our company, our customers, our communities, and the environment to meaningfully

advance our broad range of initiatives which will drive a more sustainable future

We are pleased to share MTI's 13th annual sustainability report, highlighting the significant progress with our environmental, social and governance (ESG) priorities. This year's report represents a step forward in our sustainability journey and our ESG reporting. We've achieved four of six environmental targets and advanced our initiatives in several other areas, including growing our sustainable-focused product pipeline. Our accomplishments are a direct result of our teams' commitment to #sustainability at MTI.

MEDIA SPEAK



‘Plastic Limit Order’ will boost packaging paper demand in China

One of the leading paper manufacturers in China, Lee & Man Paper Manufacturing Limited is actively looking to diversify its pulp and paper business in Southeast Asian countries. Releasing the company’s financial results for the year 2020, Dr. Raymond Lee, Chairman of Lee & Man Paper, said.

“Packaging paper remains the core business of the Group. With the increasing prevalence of online consumption in Mainland China and overseas, there is a growing demand for quality packaging paper in the market. This, coupled with the implementation of plastic limit order in Mainland China, is favorable to

the Group’s packaging paper business. To cope with the full import ban on waste paper in Mainland China, effective from 2021, the Group will actively develop the recycled pulp business in Southeast Asia to replace imported waste paper and strengthen the allocation of raw materials in order to ensure its production cost advantage,”

Mr. Edmond Lee, Chief Executive Officer of Lee & Man Paper, said in a statement that “Looking ahead, the Group will proactively optimize the industrial chain in order to diversify its paper and pulp businesses. In the meantime, the Group will support the ‘Belt & Road’ initiatives leveraging the foundation of its existing business, targeting the Southeast Asia market for international development, and introduce new production capacities in countries such as Vietnam, Malaysia and Indonesia. In the future, we will continue to seek business opportunities in countries and cities along the Belt & Road and are confident in the long-term development of the region’s paper industry.”

“The signing of the first phase of the US-China trade agreement at the beginning of last year has reduced market uncertainties. However, the COVID-19 pandemic and the ongoing tensions in the US-China relationship have affected consumer confidence. Meanwhile, with the increase in the cost of paper production, the operation of the industry is still facing challenges. The Group has proactively responded to these changes in the market. We have been committed to developing a vertical business model through active consolidation of our upstream resources, covering pulp

manufacturing and recycling of waste paper so as to achieve an integrated industrial chain and ensure the supply of raw materials. At the same time, the Group continues to expand its scale, control costs, and strengthen production capacity leveraging its existing business, bringing more

opportunities for business development and performance growth.” Dr Raymond Lee said.

He further said that the Group’s current focus lies on the development of various types of linerboard, corrugating medium, coated duplex board and tissue paper, with an intensive effort being devoted to segmental markets to cater to the needs of different customers. For the tissue paper business, the Group considers it a major focus and has therefore established an integrated product chain. Lee & Man Paper has endeavored to improve the quality of consumer tissue and boost its scale of production. The Group produces natural bamboo unbleached tissue in order to satisfy people’s needs for health and environmental protection as well as consumption requirements. The tissue business has maintained steady growth as a whole and our existing capacity reached up to 900,000 tons annually. The Group is focusing on the requirements of consumers and continues to adopt effective strategies for developing the tissue business.

– *The Pulp and Paper Times*

Shree Ajit Pulp and Paper continues to invest in quality and cost reduction

The growth in the Indian paper industry is largely dependent on the rate of growth of the economy. The changing lifestyles of the people in India have also fostered growth in the packaging segment of the sector. Growing e-commerce space and increasing presence of the FMCG and packaged food industries have contributed to the growth in the sector.

One of the top Kraft Paper manufacturers in India, Shree Ajit Pulp and Paper Limited (SAPPL) is witnessing a growth story. "We are proud that we built a sustainable company over the last 25 years and achieved many of our goals and aspirations. We are now even more motivated to scale SAPPL to newer heights and build an organization that will last ages," said Mr. Gautam D. Shah, Chairman and Managing Director of SAPPL in the annual report for FY19-20.

He further added that the future of the Paper industry in general and Multilayer testliner and testliner Paper in particular is linked with the future of world economy. When the economy in general is on the down turn, the demand for SAPPL's products is also likely to fall. On the other hand, when the economy in general is on the up-cum, the demand for the products is likely to increase. We are having advantage over most of the other manufacturers as it is professionally managed and its operations are efficient, cost effective and highly competitive.

SAPPL established in the year 1995 manufacturing quality kraft paper in 1997

with annual production capacity of 16,500 TPA and initial turnover of around Rs. 10 crore. Due to consistent efforts, continuous innovation, technological advancements, quality products and huge base of satisfied customers, at present we have annual production capacity of 1,08,000 TPA and turnover of Rs. 240.23 crore.

"The year of 2019-20 was extremely difficult for the economy as a whole due to weak global manufacturing, trade and demand. It is noteworthy however that, even in the midst of such challenging times, the Company persisted and continued to endeavor for Consistency. During the FY 2019-20 the Company achieved turnover of Rs. 240.23 crore and net profit of Rs. 19.65 crore," Mr. Shah informed.

Mr. Shah says that the investment in plant and machinery for improvement in quality and reduction in cost of production taken up during the previous year is continuing.

The per capita paper consumption in India is still low compared with the world average. The low domestic per capita paper consumption also provides potential to the industry in the long term. We are keeping a close tab on overseas market to explore our products globally. Our participation at an International Paper Exhibition at Shanghai (PRC) in April 2019 had an overwhelming response and we shall endeavour to explore international market in future.

INDUSTRY STRUCTURE AND DEVELOPMENTS:

SAPPL manufactures Multilayer Testliner and Testliner Paper from 80 to 350 GSM and 18 to 35 BF. This product is mainly used for

making Corrugated Boxes, Duplex Cartons, Corrugated small e-flute etc. as packaging material. The Company is having two wind mills of total capacity of 2.75 MW in Gujarat State, set up for captive consumption. These are in operation. The Company is having wheeling arrangement with GETCO and DGVCL whereby the set off is given to the Company for generation of electricity from the wind mills.

AN OVERVIEW:

The overall performance of the SAPPL during the year under report has been satisfactory in line with general economic conditions in the country. The revenue from operations of the Company has decreased by 10.86% to Rs. 24041.18 lakh during the year from Rs. 26,970.23 lakh in the previous year. The Profit before Tax has decreased to Rs. 2,310.16 lakh from Rs. 3,261.95 lakh and the Profit after Tax at Rs. 1965.05 lakh as compared to Rs. 2,312.86 lakh of the previous year. The profit before tax has decreased by 29.18% and profit after tax has decreased by 15.04%. The profit for the year under review was Rs. 1,965.05 lakh as compared to Rs. 2,312.86 lakh in the previous year. The EPS has decreased to Rs. 36.68 against Rs. 43.18 in the previous year.

– *The Pulp and Paper Times*





Progroup to Build Four New Corrugated Board Plants across Europe

Progroup is going to expand its corrugated board production capacities in Europe by almost 50 percent. The company plans to develop four plants in different European countries.

The paper and packaging producer is intending to build four new corrugated board plants in Europe by the year 2024. One of the proposed plants will be installed at the Stryków site in Poland. The site will become one of the largest corrugated board production sites in the world with an annual production capacity of 825 million sq m. The new plant will produce up to 200,000 TPA of corrugated sheetboards.

Earlier this year, the company had declared that it would build a new packaging plant at the site, which is scheduled to start in the third quarter of the next year.

Further, the Douvrin plant in France will also see a new corrugator, which will have a working width of 3.35 m. At present, the additional growth projects in Germany and Italy are in the planning stage.

With these expansion projects, Progroup says it will increase its corrugated board capacities in Germany, Italy, Poland, and France by almost 50 percent in four years. The company will invest a total of around USD 350 million (EUR 300 million) in this expansion.

– *Paper Mart*

Sappi and ISBC bring together digital and paper sectors

Printed electronics are decidedly on the move. Radio-frequency identification (RFID) is no longer a niche technology. It is already being used to great effect in many areas of everyday life: in our passports, ID cards and travel cards, clothes, library books, and much more. The vast scale and intricacy of the RFID market also offers new opportunities for the printing industry.

With this in mind, ISBC has developed and presented on the market an innovative product: ISBC® RFID Paper. The product is sheet-fed and made with 100% fibre-based Swiss Matt paper substrate from specialty paper manufacturer Sappi. RFID chips are embedded into the paper sheets causing no effect over the paper surface – it remains flat and smooth.

Sappi is a provider of sustainable wood fibre products and solutions. With its proven expertise in speciality papers, Sappi came up on the ISBC radar. The smart RFID Paper supplier was looking for an alternative to plastic for smart printing and Sappi's Swiss Matt paper – used mostly as an inkjet paper for large-format printing – was the perfect choice due to its white surface, excellent print results, and outstanding scratch- and water-resistance. Furthermore, thanks to its exceptional surface quality and silky feel, the paper proved to be the perfect material, offering a first-class experience to consumers. "It was clear from the very beginning that we would greatly benefit from developing our customer projects in direct collaboration with Sappi. The speciality paper expert's strong expertise has enabled us to take a big step forward," says Nikita Kozhemyakin, Business Development Director of the ISBC Group.

Thinking out of the box with ISBC RFID Paper With growing demand and potential applications, the printing market is facing the challenge of enhancing existing products and services in line with new technical possibilities. With the ground-breaking ISBC® RFID Paper, printing companies can now extend their portfolio to include printed electronics. ISBC® RFID Paper incorporates an RFID chip and is as easy to print as a regular sheet of paper, making it a cost-efficient solution for printing companies. Another advantage of the 'sandwich product' is that it can be printed with various kinds of printing techniques and machines –

therefore eliminating costly in-house development work and avoiding investments in new equipment, software and business processes. The desired information can simply be transferred to the paper-embedded RFID chip: for the encoding process ISBC has developed a special encoding machine and training materials. ISBC® RFID Paper line made from Swiss Matt is used mainly for business cards, postcards, stickers, promotional flyers, POS materials, access & loyalty cards, brand protection labels, diplomas among many other applications.

Why paper makes a difference

In terms of resource conservation and environmental protection, RFID Paper delivers significant advantages over conventional plastic tags. Ivan Demidov, ISBC Founder and inventor says: "Our patented technology is unique on the market. It offers end-users a PVC-free, more sustainable and future-proof option." Paper-based RFID tags reduce waste both during production and at the end of the product's lifecycle. Printing processes also consume less energy and resources, which leads to a reduced carbon footprint for forward-looking, sustainability-conscious B2B and B2C companies.

How is the world shaping up today in terms of RFID, which could play a major role for the paper industry? ISBC® RFID Paper is suitable for a wide range of applications in numerous industries. It adds digital value to simple products – reliably and at low cost. Specifically, it can be used for contactless

tickets on buses, trains, trams and other means of transportation, as well as for prepaid cards and gift cards, business cards and access control, including key cards for hotel rooms, ski passes or admission wristbands for events and trade fairs. The paper-based sensors and labels can also be integrated into diplomas and other certificates to verify document authenticity. Conventional postcards can also be enhanced by integrating an RFID tag with interactive URLs.

– **PULPAPERnews.com**



Russia's largest production of eco-friendly paper cups launched in St. Petersburg

Russia's largest production of eco-friendly paper cups for drinks has been recently commissioned in St. Petersburg by the local "PolyCap" company.

According to the producer, the new cups do not contain plastic and are fully recyclable. By the end of the year, PolyCap intends to produce 2.2 million paper cups a month. The volume of investments in the project at the initial stage amounted to US\$5 million.

Now the facilities of the enterprise are utilized by 50% and by the end of the year it is planned to reach 100% utilization. In the long term – the capacities will be expanded up to 6.6 million paper cups per month.

Finnish cardboard is used as raw material for PolyCap glasses, which, according to the company's representative, does not get wet. The company said such glasses are completely recyclable, since they do not contain plastic (ordinary paper cups have a layer of polyethylene, they contain up to 5% plastic, which makes them difficult to recycle. Now the company "PolyCap" receives a patent for its products and registers a trademark.

– **PULPAPERnews.com**

BUSINESS FESTIVAL OF PAPER INDUSTRY



a Hyve event

09-12|JANUARY 2022

India Expo Centre,
Greater Noida, Delhi- NCR, India

Paperex is the largest paper industry event in the world and it takes place in New Delhi, India.

It is a "A Unified Business Platform for Paper Industry" for new business opportunities, joint ventures, investments and technology transfer in paper and allied industries.

Paperex is always very well attended by large gathering of Paper Manufacturers to explore the New Technology., Machinery & Equipment and Raw Material for Paper & Board Manufacturing.

And the mass audience of Paper Traders, Printers, Publisher, Converter and Paper Packaging Companies to explore the variety of papers at the show



23-25 November 2022

Chennai Trade Centre, India

A sneak Preview:

- Meet 250+ exhibitors who will display latest products & services from 18 countries
- Learn new trends by attending technical conference by IARPM
- Network with industry leaders at "Global Paper Technology Supplier" pavilion
- Delegation program to host international buyers
- 5000+ trade visitors from 20+ countries including 142 paper mills across India
- Visit "Paper Manufacturer" networking pavilion
- Engage with the leaders at "Exclusive Paper Mills CEO/MD Conclave"

Business Connect Program

- **Market News & Views, a weekly e news alert program** covering Industry Updates , Launch of New Technologies , Partnership Opportunities , Industry Views, CSR activities
- **International Business Networking Program (IBNP) a monthly webinar** covering key industry across Indian as well as some neighboring countries including China, Taiwan, Bangladesh, etc
- **Open Seminars during the event**, a unique opportunity to have face to face interaction with industry leader and knowledge transfer



Contact Us



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SOME LEADING COMPANIES AT THE EVENT

Paques Environmental Technology India Pvt. Ltd.



Paques, originated in The Netherlands, has around 50 years of experience and has grown into one of the leading players in water and gas

treatment. We are the worldwide key player in anaerobic wastewater treatment and biogas desulphurisation and help companies & municipalities to contribute to the major challenges of today: "to reduce their water and carbon footprints and reclaim valuable resources."

With the recent acquisition of Paques by the German Investment Company, SKion Water (<https://www.skionwater.com/en/>) we are extremely honoured to be the part of the global portfolio of water technology companies of SKion along with Ovivo, EnviroChemie, ELIQUO WATER GROUP, Ecopreneur, ADASA and Matten. Collectively we will continue to provide fresh water and wastewater treatment solutions to both municipal and industrial customers worldwide.

In India, ever since we set foot on the continent our mission has been to envision A country free of waste, where the people does not see waste as trash, but as something of value & source of revenue. Customers of Paques are active in virtually every Municipal and Industrial market, such as Pulp & Paper,

Food, Dairies, Distilleries, Beer and Beverages, Biofuels, Metal and Mining and Chemicals. Paques purification processes vary from end-of-pipe solutions to closed loop systems, using a combination of anaerobic treatment, aerobic treatment, filtration, ultra-filtration, reverse osmosis and UV radiation. Even in some segments' wastewater contains high levels of nitrogen and phosphate, which imposes increased discharge costs could be easily treated via Paques technology.

With over 3000 successful case references worldwide, Paques has ample proof of its solid experience in advising companies to -

Create renewable energy from wastewater
Reduce discharge costs whilst complying with environmental regulations

Recycle process and non-process water (e.g. water for steam boilers)

Reduce fresh water intake

Paques Solutions for Wastewater & Gas Treatment

1. BIOPAQ®ICX –

Website link -

<http://en.paques.nl/products/featured/biopaq/biopaqicx>

YouTube link -

<https://www.youtube.com/watch?v=O44IN4VH3co>

Brochure -

<http://en.paques.nl/mediadepot/1816c2a7a2e0/WEBPaquesbrochureBiopaqICX.pdf>

2. BIOPAQ®IC

Website Link -

<http://en.paques.nl/products/featured/biopaq/biopaqic>

YouTube link -

<https://www.youtube.com/watch?v=zoHb-Mb4-NI>

Brochure -

<http://en.paques.nl/mediadepot/181910ebc6dd/WEBbrochureBiopaqIC.pdf>

3. THIOPAQ®

Website Link -

<https://en.paques.nl/products/featured/thiopaq-biogas-desulfurization>

YouTube Link - <https://youtu.be/c-x7vSZwSOs>

Brochure -

<https://en.paques.nl/mediadepot/297229d56452/WEB5800000249brochureThiopaq.pdf>

4. ANAMMOX®

Website Link -

<https://en.paques.nl/products/featured/ammonia-removal-anammox>

YouTube Link -

<https://youtu.be/NJmOjJ87X68>

Brochure

<https://en.paques.nl/mediadepot/296927054fb3/WEB5800000249brochureAnammox.pdf>

Asia Pulp & Paper (APP) Sinar Mas / Great Divine Pulp And Paper (India) Private Limited



Asia Pulp & Paper (APP) Sinar Mas is a trade name of pulp and paper manufacturing company which delivers quality products to meet the growing global demand for paper, tissue, and packaging. Beginning as a caustic soda producer in 1972, we have grown into a global business with operations across Indonesia and China with an annual combined pulp, paper, packaging product and converting capacity of over 20 million tons per annum. Today, Asia Pulp & Paper (APP) Sinar Mas markets its products in more than 150 countries across six continents.

This growth is guided by our vision of a better future. It is what keeps us moving forward, creating new ways of living and innovating. Over the years, we have expanded our operations through the acquisition and expansion of our pulp and paper mills. It is our commitment to customer satisfaction that enables us to grow our share in paper sales worldwide and broaden our presence through offices in many countries.

As part of our vision for a better future, the integrity of our supply chain and our commitments to our Sustainability Roadmap Vision 2030 are crucial to our operations. Every day, we do our best to achieve sustainable forest and peatland management, market-leading product environmental footprints, and people-first sustainable operations. This vision extends beyond the countries where we operate.

We believe that the growth of our business is dependent on the support of the people around us: partners, employees, communities, and you. Together, we are growing our tomorrow.

Vision & Values

As a leading global pulp-and-paper company, we believe in delivering innovation, sustainably and responsibly, working together to secure a better future of our customers, communities, employees, shareholders and you.

We value:

- Our employees, who are integral to Asia Pulp & Paper (APP) Sinar Mas' success
- The environment, as our business, depends on sustainable operations
- Our customers and suppliers, who sustain our business
- Our shareholders, and the community to whom we are accountable
- The principles of good governance as we continue to build a sustainable business

Growing Together

For almost 50 years, Asia Pulp & Paper (APP) Sinar Mas has been growing together with you, innovating and delivering quality products to meet the growing global demand for fine printing and writing paper, consumer and industrial packaging products, and tissue paper. Let us take a step back in time and revel in our journey from our humble beginning.



SPAC Starch Products India Ltd



We are one of the largest manufacturers of Tapioca, Maize & Modified Starches in India.

SPAC Starch Products (India)

Private Limited was established in May 1996 to manufacture Tapioca Starch and expanded with integrated manufacturing facility for Maize & Modified Starch Units along with 4.5MW Captive co-gen Power Plant in the year of 2013.

The only company in India having 3 independent Plants for Tapioca, Maize & Modified Starches in a single location with 4.5MW Captive co-gen Power Plant.

Quality of our Tapioca & Maize Starch (Native and Modified Starches) are at par with International Standards.

Quality unmatched with any other Indian starch manufacturer.

Our Manufacturing Facility

- Our annual manufacturing capacity is more than 1 lakh MTs of starch with a daily crushing capacity of 800 MTs of Tapioca and 350 MTs of Maize.
- State of the Art technology for immediate conversion of tapioca tuber and maize to starch.
- We deliver customize Products as per Customers' specific applications / requirements.

Quality Control

- Processed water meeting Industrial Standards, is used for the entire manufacturing process.

- Well-equipped In-process QA and R&D Laboratory with latest testing facilities.
- Stage wise in-process control
- Hands-free technology to deliver food / IP grade starches.

Quality Assurance

- All our products are under-going stringent quality tests and approved by SPAC Quality Assurance Team.
- We always upgrade ourselves in-terms of producing quality products through GMP (Good Manufacturing Practices).

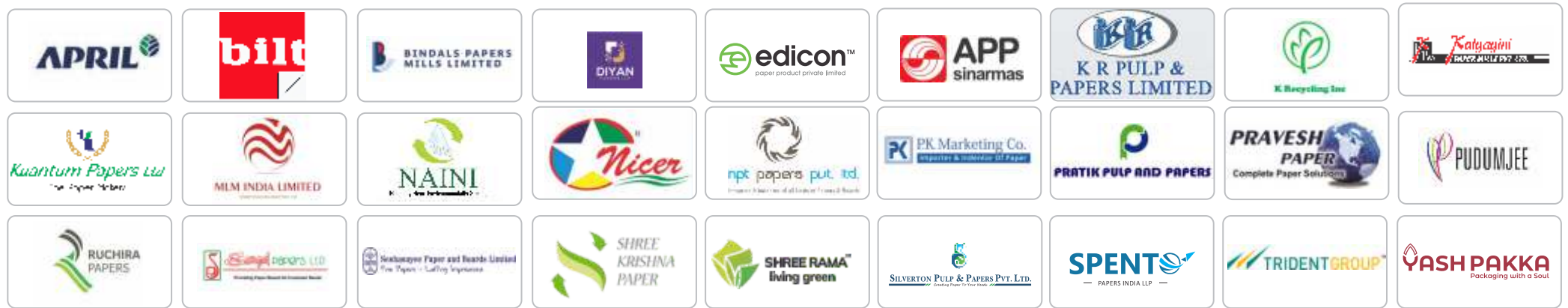


Minerals Technologies Inc



A technology-driven specialty minerals company. We are a leading global resource and technology-based company that develops, produces and markets a broad range of specialty mineral, mineral based and synthetic mineral products and provides supporting systems and services. As a leader in minerals-based application technology with world-class manufacturing capabilities, we are focused on delivering a comprehensive portfolio of value-added solutions to a diverse customer base across all sectors. We make it our priority to provide customers with differentiated products along with best-in-class customer service and technical expertise. Our company's success is driven by our people focused culture, Operational Excellence Foundation, safety-first approach and commitment to living our core values in everything we do. We continuously invest in sustainability throughout our operations, motivated in large part by the commitment and engagement of our global employee base. We recognize that being a responsible business and corporate citizen is critical to our ongoing success. For us, it is an ongoing journey where we continue to improve, adapt and strive to achieve ambitious objectives.

SOME GLOBAL LEADERS OF PAPER INDUSTRY



SOME GLOBAL LEADERS FOR PAPER INDUSTRY



...and many more

SOME LEADING EXHIBITORS



...and many more

Thank You

COMBATING
COVID-19

Basic
Protective
Measures



USE FACE MASK



CLEAN AND DISINFECT



WASH YOUR HANDS
FREQUENTLY



KEEP DISTANCE
FROM OTHERS



AVOID TOUCHING
EYES, NOSE OR MOUTH



STAY AT HOME
WHEN YOU ARE SICK