

*News and Views...* 

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## India's cumulative COVID-19 vaccination coverage inches closer to 37 crore

India recorded a single-day rise of 45,892 new COVID-19 cases, taking its infection tally to 3,07,09,557, while the count of active cases increased slightly to 4,60,704 after being on a consistent downward trend for nearly 55 days. The death toll has climbed to 4,05,028 with 817 new fatalities being reported. The number of active cases comprises 1.50 per cent of the total infections, while the national COVID-19 recovery rate stands at 97.18 per cent, data updated by the ministry at 8 am showed. Also, 18,93,800 COVID-19 tests were conducted in the country on Wednesday, taking the total number of such examinations so far to 42,52,25,897, while the daily positivity rate was recorded at 2.42 per cent. It has been less than three percent for 17 consecutive days, the ministry said. The weekly positivity rate has declined to 2.37 percent, according to the health ministry. The number of people who have recuperated from the disease surged to 2,98,43,825, while the case fatality rate stands at 1.32 percent, the data stated. The total number of vaccine doses administered so far has reached 36.48 crore under the nationwide vaccination drive.

## India May Receive 3-4 Million Doses of Pfizer, Moderna COVID-19 Vaccine By August:

India is expected to receive foreign-made COVID-19 vaccine doses through the COVAX global vaccine-sharing programme for the first time by as early as August, reported news agency Reuters quoting sources. According to the report, around 3 to 4 million doses of Pfizer (PFE.N) and Moderna (MRNA.O) COVID-19 vaccine can potential arrive in India by August, sources said on Wednesday. Also Read - International Flights: Canada Relaxes Travel Restrictions From Today. Check Who Can Fly | Details Here

COVAX could ship the US-made doses to India as early as this month, a source aware of the discussions told Reuters. Also Read - Why DCGI Refused to Grant Emergency-use Authorisation to Sputnik Light?

A spokesperson for GAVI, a vaccine alliance which runs COVAX alongside the World Health Organization, said talks were underway "to ensure U.S.-donated doses through COVAX can reach India quickly, and we look forward to being able to deliver to India once all legal requirements are concluded"

India, the world's biggest producer of vaccines, was initially the main source of COVID-19 shots for the COVAX programme, but halted its exports in April after a massive wave of COVID-19 infections, having sold or donated 66 million shots.

In June, US President Joe Biden had announced the United States would donate 500 million doses of the Pfizer COVID-19 vaccine to the world's poorest countries. Pfizer and Moderna did not immediately reply to e-mails seeking comment. The foreign ministry also did not reply to queries.

– *India.com*





## 'India likely to grant indemnity to Moderna, soon'

India is close to agreeing to grant protection to Moderna against legal liability which will allow the immediate import of about 7 million doses of the US company's Covid-19 vaccine, two people in the know told ET. These shots of the Moderna vaccine, donated by the US government, will reach India once the issue of indemnity is sorted out. This could happen as early as this week, they said.

"While India is agreeing to indemnity, we have asked them to suitably modify certain words in the agreement. Wordings make a difference; the analysing and understanding have to be country-specific. They need to be refined and that's what has led to some delay," a government official said. Moderna will be supplying its vaccine to India through Cipla. Last week, India's drug regulator granted permission to Cipla to import the donated doses of Moderna's mRNA vaccine.

"We are expecting a few million doses as a donation from the US government," said the official. This will be minuscule, and India will have to depend on its own vaccine production, he added.

– *The Economic Times*

## Sputnik V soon to be available at government inoculation centres for free

Amid the massive demand and need of the COVID-19 vaccine in the country, the Russian-made Sputnik V vaccine will soon be made available for free at government-

run vaccination centres across India, Dr NK Arora, Chairman, Centre's COVID-19 working group, said. With this, the Sputnik V will become the third COVID vaccine in India to be available for free of cost after Covishield and Covaxin.

According to a report by the Times of India, Dr NK Arora said that the Sputnik V Vaccine requires a storage temperature of -18 and will be stored in cold chain facilities preserving polio vaccines.

Currently, Sputnik V is available only in the private sector. Depending on supply, we want to make it available under our free vaccination programme soon. Sputnik V requires a storage temperature of -18°C. Cold chain facilities preserving polio vaccines would be used to store Sputnik V, a plan that will also ensure it reaches the country's rural areas", Dr NK Arora said as quoted by Times of India.

Dr Arora further said that some areas in the country may have seen a significant drop in COVID vaccinations, however, he asserted that the reduction came due to the ongoing polio vaccinations in the country. "The Covid vaccination programme will be streamlined within the coming week," Dr Arora said.

He said Covishield and Covaxin still constitute a big chunk of vaccine supplies. "Besides scaling up production of these two vaccines, the addition of Sputnik V and the impending rollout of Moderna and Zydus Cadila's new shot would boost daily coverage from 50 lakh a day to 80 lakh and even 1 crore in the coming weeks."

"The target is to cover everyone over 18 (nearly 93 crore people) by the end of this

year. With a recent ICMR report predicting the third wave by February or March next year, the country had a window of about eight months to achieve that objective", he said.

Arora also said that it was too early to link the Delta Plus variant of COVID-19 with the third wave of the pandemic and asserted that the outbreak of the third wave will depend on the universal adoption of COVID-19 appropriate behaviour. "Whether it will lead to a third wave will depend on universal adoption of Covid-appropriate behaviour, ramping up of vaccination drives and testing and tracing in districts," he said.

Meanwhile, the total number of COVID-19 vaccine doses administered in the country so far has exceeded 35.71 crore, the Union Health Ministry said on Monday. According to a provisional report published at 7 pm, more than 41.34 lakh vaccine doses have been administered on Monday. In the age group of 18-44 years, 18,30,741 people got first dose of the vaccine and 1,40,368 received the second dose on Monday.

Eight states -- Uttar Pradesh, Madhya Pradesh, Rajasthan, Tamil Nadu, Bihar, Gujarat, Karnataka and Maharashtra -- have administered more than 50 lakh first dose of COVID-19 vaccine in the age group 18-44 years. Andhra Pradesh, Assam, Chhattisgarh, Delhi, Haryana, Jharkhand, Kerala, Telangana, Himachal Pradesh, Odisha, Punjab, Uttarakhand and West Bengal have vaccinated more than 10 lakh people in the 18-44 years age group for the first dose, the ministry said

## INDUSTRY NEWS

### First 5 Lakh Tourist Visas To Be Free: Centre's Boost For Covid-Hit Tourism Sector

Five lakh tourist visas will be issued free of charge – once the government resumes issuance – Union Finance Minister Nirmala Sitharaman said Monday evening, as the government unveiled a list of eight relief measures for some of the sectors worst affected by the Covid pandemic and lockdown. This scheme will run till March 31, 2022, or till the first five lakh tourist visas are issued, whichever is earlier, Ms Sitharaman said, adding that each tourist could only avail of this scheme once. The Finance Minister said the total financial implication of the scheme will be 100 crore.

Travel and tourism sector is among the sectors most badly hit by the pandemic. States for whom tourism is a big earner – like Goa and Kerala – have reported thousands of crores in losses.

To illustrate the impact Covid has had on this sector, Nirmala Sitharaman said 10.93 million tourists visited India in 2019 and spent nearly US\$ 31 billion on leisure and business. On average, an individual tourist stayed for about 21 days and spent \$34, or 2,400, daily.

To help the country's tourism sector recover, Ms Sitharaman also announced other measures, including a new loan guarantee scheme for 994 travel and tourism stakeholders (TTS, as recognised by the Tourism Ministry) and 10,700 regional- or



state-level licensed tourist guides. Loans will be provided with 100 per cent guarantee up to certain limits, she said. For TTS the limit will be 10 lakh (per agency) and for guides it will be 1 lakh.

There will be no processing charges and waiver/foreclosure payment charges, and no additional collateral is needed, she said. Worldwide, the Covid crisis cost the global tourism sector \$1.3 trillion in lost revenue in 2020, the United Nations said in January, calling it "the worst year in tourism history". International tourist arrivals fell by one billion, or 74 per cent, in 2020 with Asia – the first region to feel the impact of Covid-19 – seeing the steepest decline, the UN said.

– **Exhibition Showcase**

### Germany lifts travel ban on travellers from India, 4 other countries

Germany is lifting a ban on most travellers from five countries hit by 'Delta' variant of COVID-19, including India and the UK from Wednesday, said German envoy Walter J Lindner. "From tomorrow, Germany is removing the entry ban and easing travel rules for five countries where Delta variant is widespread, including India," tweeted German ambassador to India, Walter J Lindner on Tuesday. German public health agency the Robert Koch Institute on Monday said India, Nepal, Russia, Portugal and the UK, currently listed as so-called virus variant countries, would be reclassified from Wednesday as "high-incidence areas". The change will mean simpler requirements for people visiting those countries.

People who have had either both vaccination doses, or who can demonstrate they have recovered from COVID, will not need to isolate on their return or arrival. India was classified as a virus variant area at the end of April, followed by Nepal and the UK in May. The EU country Portugal, as well as Russia, were added to the list on June 29. Germany banned entry for travellers from India due to an upsurge in the number of coronavirus cases.

– **Exhibition Showcase**



## Fitch cuts India growth forecast to 10 pc, says rapid vaccination to support revival

Fitch Ratings on 7th July, cut India's growth forecast to 10 per cent for the current fiscal, from 12.8 per cent estimated earlier, due to slowing recovery post second wave of COVID-19, and said rapid vaccination could support a sustainable revival in business and consumer confidence.

In a report, the global rating agency said the challenges for banking sector posed by the coronavirus pandemic have increased due to a virulent second wave in the first quarter of the financial year ending March 2022 (FY22). "Fitch Ratings revised down India's real GDP for FY22 by 280bp to 10 per cent, underlining our belief that renewed restrictions have slowed recovery efforts and left banks with a moderately worse outlook for business and revenue generation in FY22," it said.

Fitch believes that rapid vaccination could support a sustainable revival in business and consumer confidence; however, without it, economic recovery would remain vulnerable to further waves and lockdowns. It said localised lockdowns during the second wave kept economic activity from stalling to levels similar to those during 2020, but disruption in several key business centres has slowed the recovery and dented Fitch's expectations of a rebound to pre-pandemic levels by FY22. India's economy contracted 24.4 per cent in June quarter of 2020.

Fitch views India's rebound potential to be better than most comparable 'BBB-' peers because it does not expect a structurally weaker real GDP growth outlook. However, there is a risk that India's medium-term

growth could suffer if the business and consumer activity were to experience scarring from the COVID-19 pandemic.

The agency estimates India's medium term growth potential at about 6.5 per cent. Stating that vaccination is key for business revival and relief measures would only provide interim support, Fitch said the low vaccination rate makes India vulnerable to further waves of the pandemic.

"Only 4.7 per cent of its 1.37 billion population was fully vaccinated as of July 5, 2021... This poses risks to the prospects of a meaningful and sustainable economic recovery," it added. Indian economy contracted by 7.3 per cent in fiscal 2020-21 as the country battled the first wave of COVID, as against a 4 per cent growth in 2019-20.

GDP growth in current fiscal was estimated to be in double digits initially, but a severe second wave of pandemic has led to various agencies cut growth projections. RBI too earlier this month cut India's growth forecast to 9.5 per cent for this fiscal, from 10.5 per cent estimated earlier. While S&P Global Ratings lowered its growth estimate to 9.5 per cent, another US-based rating agency Moody's has projected a 9.3 per cent growth in the current fiscal ending March 2022. For 2021 calendar year, Moody's has cut growth estimate sharply to 9.6 per cent.

Last month, World Bank slashed its GDP

growth forecast for current fiscal ending March 2022 to 8.3 per cent, from 10.1 per cent estimated in April, saying economic recovery is being hampered by the devastating second wave of coronavirus infections. Domestic rating agency ICRA too had projected economic growth at 8.5 per cent for this financial year, while British brokerage firm Barclays had last month cut India's growth forecast to 9.2 per cent.

Fitch in its report on Indian banks further said that regulatory relief measures have postponed underlying asset-quality issues for now, but banks' medium-term performance will be dented without a meaningful economic recovery. "The operating environment remains challenging for the banks with limited opportunities for business and revenue growth. Problems could escalate in the event that successive COVID-19 waves and lockdowns prevent a meaningful economic recovery considering that India's full vaccination rate is still quite low," it said.

Fitch expects banks' exposure to stressed MSME and retail borrowers to rise further with the increasing relief outlay, and is likely to compel banks especially state-owned ones to slow regular lending in the absence of adequate core capital cushions and weak contingency buffers.

– *Financial Express*

### Weekly e-news Alert Program - 'Market News & Views'

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



### Post-pandemic, paper sector on the path to recovery

Impacted by the first and second waves of the Covid pandemic, the country's paper sector expects a revival of demand from the current half of the calendar year.

Due to the Covid pandemic since March 2020, the paper industry's both inward and outward supply chains have been disrupted, and are yet to recover fully. There has also been a severe demand compression due to the lockdown, closing down of educational institutes, commercial establishments and downstream printers, publishers, converters, stationery services, according to Indian Paper Manufacturers Association.

"The consumption has gone down drastically, not only due to closure of educational institutes but also offices, IT companies and service industries. This has

adversely impacted writing and printing grades and also grades like tissue. All segments of paper were adversely impacted, and it is only a matter of degree amongst different grades, with writing and printing and newsprint segments the worst impacted," the Association states.

AS Mehta, President, IPMA, told Business Line, "The first and second pandemic wave adversely affected the sector with paper consumption coming down. We hope to see demand recovery from the third quarter and pick up in the fourth quarter. However, there has been an all-round increase in input costs, across raw materials and in energy costs, as also of all sizing chemicals leading to pressure on costs."

"From January 2021 onwards, some signs of recovery were witnessed, especially in packaging and paperboard and tissue segments. After the second wave of the pandemic, the scenario dampened again for the industry from mid-April onwards with orders drying up for some segments. Sentiments likely to revive after June 2021 when the impact of the second wave declines," he said, sharing the sector outlook. Weak demand

However, the writing and printing paper is facing a bleak scenario and demand would improve only when schools and colleges reopen. As the other sectors of the economy have started recovering, the need for packaging and paperboard is improving. Exports are providing some relief, even though realisations have gone down, as other countries have not been so severely impacted compared to India.

The sector can grow as the per capita paper consumption in India is at 15 kg against the global average of 57 kg. While the demand for paper is growing at 6-7 per cent per annum, India's share in world production of paper is at about five per cent, with an estimated output of 19 million tonnes per annum (TPA) and an annual turnover of about 70,000 crore wherein the domestic market size of 80,000 crore.

According to CPPRI data (2019-20), India has 861 paper mills with 526 operational and with total installed capacity of 27.15 million tonnes.

The emphasis on education and literacy coupled with growth in organised retail and demand for better quality paper are the major drivers for writing and printing paper. There has been continued demand for quality packaging of FMCG products, organised retail, booming e-commerce, and other segments.

According to Rohit Pandit, IPMA, Secretary-General, "The paper Industry has made substantial investments in the last 5-7 years and it is becoming very difficult to meet its financial obligation in view of significant drop in margins. In recent years, several paper mills have closed down due to commercial unviability."

Cost pressures

The growing cost of raw materials and significant cost increase of fuels and other inputs has resulted in a substantial increase in the domestic manufacture of paper and paperboard, making India's Paper Industry non-competitive. The paper and paperboard (not including newsprint import data)

imports into India have been steadily increasing. In the last nine years, imports have risen at a CAGR of 11.34% in value terms (from 3,411 crore in 2010-11 to 8,972 crores in 2019-20).

Imports are growing against the increase in domestic production rate with underutilisation of domestic installed capacity. Therefore, while the domestic industry operates under challenging conditions, substantial quantities of paper and paperboard are imported at significantly lower costs under the FTAs.

The IPMA believes that the Government needs to support the industry, which has developed strong backward linkages with the farming community. India is fibre deficient with inadequate raw material. This has been a major constraint for the paper industry. Of the total demand for wood, over 90 per cent is sourced from industry-driven agro/farm forestry, with the rest from government and other sources.

About 5,00,000 farmers are engaged in growing plantations of eucalyptus, subabul, casuarina, acacia, poplar to meet the sector demand. About 125,000 hectares are being brought under agro/farm forestry annually on an average, with around 1.2 million hectares on a cumulative basis across the country.

Significantly, India's paper industry is wood-positive. It plants more trees than it harvests.

**– The Hindu Business Line**

### **Mohit Paper Mills ventured into Kraft paper manufacturing; Slump in Writing & Printing paper demand**

The big paper mills of the writing and Printing segment in India, are tweaking with new product development i.e. Kraft paper. After anticipating the short-term challenges in writing & printing manufacturing arising due to COVID 19, Mohit Paper Mills has also added various Kraft grades in its products portfolio.

“Considering the slump market conditions of writing and printing paper, we have also stepped in Kraft paper manufacturing; we conducted the production trial on our PM-1 in December 2020, which was successful. We are producing High BF Kraft, Absorbent Kraft from 100% virgin pulp,” said Mr. Mohit Jain, GM-Marketing, Mohit Paper Mills Ltd.

Mohit Paper Mills is producing Kraft & absorbent kraft paper from agro-waste with 100 to 150 GSM range (25 to 28 BF). These Kraft paper grades are being used in lamination industry and paper bag manufacturing.

“We are manufacturing kraft paper alternatively depends on the orders. We have produced kraft paper two times on PM-1 and soon we are going to take the third run on the machine,”

“The samples of trial production have already been accepted in the market on quality parameters,” he said.

The dropped demand of W&P grade recommends that Paper mills should tweak a lot with new paper products developments,



Value addition on the idle paper machine capacities and sync their market strategy on the line of customers' behaviours.

Commenting on the W & P paper market scenario, Mr. Mohit said that there is a slump in writing and printing, but from past one month there is a revival in demand but prices are crashed by the big paper mills only to capture the market. If the rates are not increased, the viability of small paper mills will vanish.

“We are not anticipating any improvement in demand till March 2021,” Mr. Mohit said.

**– The Pulp and Paper Times**



## Flipkart Achieves 100% Single-Use Plastic Elimination Packaging Throughout its Supply Chain



Flipkart, India's homegrown e-commerce marketplace, has eliminated all single-use plastic packaging used across its fulfilment centres in India, delivering on its public commitment to move to plastic-free packaging in its own supply chain by 2021. This has been achieved across more than 70 facilities of Flipkart spread all over India, where Flipkart has eliminated single-use plastic packaging by introducing the most scalable sustainable alternatives such as eco-friendly paper shreds, replacing poly pouches with recycled paper bags, replacing bubble wraps with carton waste shredded material and 2 Ply roll to name a few. Throughout this process, Flipkart has also ensured that it is fully compliant with all EPR regulations and through its network of recyclers, the equivalent quantity of single-use plastic going to consumers is fully recycled.

Having achieved this milestone, Flipkart is now actively working with its seller partners who fulfill customer orders directly from their locations to educate them and enable them to move towards alternative materials. Furthermore, Flipkart is actively working with the ecosystem to understand how it can best implement other initiatives to create a more circular economy for plastics so that the entire ecosystem can move towards a more sustainable future. Through proactive interventions and guidance, Flipkart has already achieved a 27% reduction in the use of single-use plastic packaging in its seller fulfillments.

Hemant Badri, Senior Vice-President and Head of Supply Chain at Flipkart, said, "At Flipkart, we place great emphasis on sustainable and responsible business practices. Moving towards 100% single-use plastic elimination is one of the significant steps we have taken towards fulfilling our commitment to creating a sustainable ecosystem. We achieved this while navigating a tough year impacted by Covid and are proud that our teams kept the priorities in line. We are now focused on enabling our seller ecosystem to adopt sustainable packaging alternatives as well and to create positive environmental and social impact across the entire supply chain".

Some of the other key initiatives by Flipkart include 'E-commerce ready packaging', where Flipkart has been able to ship close to 15% of products without adding a secondary layer of packaging. Flipkart's ambition is to

reduce the need for an outer layer by working with brands across apparel, electronics and home furnishings to ship their products in the original manufacturer/brand packaging. Flipkart also is working towards making sure that the packaging used does not cause any deforestation by scaling packaging from recycled and alternative materials.

Some of the other efforts that Flipkart is working on include:

- Responsible forestry and sourcing
- Plastic free returns in the supply chain
- Plastic-free returns for sellers

Through these efforts, Flipkart continues on the sustainability journey and further strengthens its commitment to sustainable solutions for packaging and realize its vision of holistic, sustainable growth.

**– Paper Mart**





### **JK Paper to Commission INR 2000 Crore Capacity Expansion Project in Gujarat**

JK Paper Limited is all set to commission its INR 2,000-crore integrated expansion of paper packaging project in Gujarat during the current quarter. The plant will increase the capacity of the packaging board by 1,70,000 TPA and 1.6 lakh pulp units and take its total production capacity to close to 7.8 lakh TPA.

As reported in a leading daily – Mr. AS Mehta, President and Executive Director of JK Paper states, “The new manufacturing plant located at Songadh near Surat was initially programmed to be commissioned by March-April 2021. It has been delayed by few months due to disruption caused during the Covid pandemic wave, where workers and some experts were away. We will begin trials of the plant in July-September quarter (second of this financial year).”

“This is a virgin paper packaging plant and will have the capability to add about INR 1,000 crore in revenues for the company in a full year of operation. The plant includes a 1.7 lakh TPA packaging material and 1.6 lakh TPA of pulp making capacity apart from boilers and related infrastructure,” he said.

“While JK Paper now has a capacity of about 4.5 lakh TPA, this will take the total installed capacity to about 7.8 lakh TPA. Through internal expansion, this capacity could go up to 8 lakh TPA, making us a leading paper company in the country,” he explained.

“This capacity augmentation is aimed at significantly expanding paper production and to take advantage of the growth momentum the country’s paper sector that is likely to come up over next few years. We will also significantly boost export business due to immense potential,” Mr. Mehta said.

– **Paper Mart**

### **Asia Symbol Orders a 1 Million TPA Board Production Line from Voith**

Voith has received an order to build and supply a complete paper production line. The pulp and paper manufacturer Asia Symbol commissioned Voith to supply the BM 13 board machine for the Rugao site, located 180 km northwest of Shanghai, China. The efficient, state-of-the-art production line will achieve an annual production volume of up to 1,000,000 tons of high-quality coated folding boxboard in the basis weight range 170 – 400 g/m<sup>2</sup>. The planned design speed is 1,400 m/min. The startup of the new high-speed line is scheduled for mid-2023.

Asia Symbol is very pleased to be able to further successfully expand its market position in China with this new production line.

Joachim Huber, Sales Manager at Voith Paper commented: “We are absolutely

delighted that Asia Symbol has underscored our long-standing and very trusting cooperation with this major order. With the BM 13 in Rugao, we will supply a highly efficient system as a full-line supplier that enables optimized and resource-saving production of folding boxboard. The order is complemented by the latest automation technologies.”

Designed as one of the most efficient board machines in the world, the order covers the entire paper production process from BlueLine stock preparation, the wet end process, including water-saving FlowJec chemical dosing technology, to the XcelLine paper machine and two VariFlex Performance winders with a fully automated Flying Splice reel change.

The sustainability and efficiency of the production line are also ensured by a resource-saving TripleNipcoFlex press, EcoHood dryer section hood, ropeless threading system in the dryer section, and contactless qDry Pro coating colour drying including HelioX high-performance infrared emitters. In addition, the scope of supply includes basic engineering as well as erection and commissioning supervision of the line.

Furthermore, Voith will supply a comprehensive fabrics package and a wide range of automation solutions, including OnControl MCS, DCS, Drive Control, OnQuality MD/CD Control, and OnCare Health. In addition, Voith experts will conduct new virtual reality training with the customer.

– **Paper Mart**

## Newly started, Maakrupa Paper mill is fulfilling Corrugators' demand in Central India

Based on packaging form, the corrugated segment is projected to dominate the kraft paper market, in terms of value and volume, from 2019 to 2025. The Lockdown and the continuing of an economy back toward full production; new capacities in kraft paper production are taking place. The demand of corrugated boxes have been rising, corrugated boxes not only offer protection to shipped goods from damages but also offer easy handling features.

"The COVID-19 pandemic has changed the normal functioning of the packaging industry as demand for specific packaging types witnessed major disruptions. The packaging demand used in healthcare products, groceries, and the e-commerce sector has increased sharply. At the same time, the demand for luxury, industrial, and some B2B-transport packaging has declined. Due to lockdown in many countries across the globe, consumers have opted for online shopping of groceries, medical products, pharmacies, and other consumer goods, affecting the retail ready packaging market," explained by Mr. Alpesh Ramani, Director at Maakrupa Paper Products LLP a newly started paper mill.

"The demand of kraft paper will remain sustainable in the future, and we are glad that our investment in new paper mill will yield good returns for us. There are less paper mills in Indore region, which is making



us a viable option for corrugators and Traders' buying need of paper. We have installed and commenced a 120 TPD paper mills at an industrial area which is 12 KM away from Indore," informed by Mr. Alpesh. Maakrupa Paper has commenced its production in December 2020 at 80 TPD and gradually increasing its capacity. "We are manufacturing paper between 110 to 150 GSM with 16 to 20 BF strength," Mr. Alpesh said.

He further insisted that corrugated boxes are the lifeblood of the modern packaging and shipping industries. Think about it; almost everything we touch has been packaged, moved, delivered, and received in a brown box.

"Our entire plant and machinery is supplied by DS Engineers, DS Engineers helped us in customizing the plant and machinery according to our need of paper quality. We have also installed all the critical components which are useful in automated the paper mill for reducing manpower," he said.

The new plant has 3.8 meters finished deckle size while speed is designed at 250 m/min. We have bought the entire pulp section from Parason Machinery.

Mr. Alpesh further informed that our machine is running on a single wire machine and having the capability to reach at 130 TPD. We are currently selling our products in domestic market, and looking for an export market also.

Corrugated is made from three layers of thick paper stock that are glued together. Two flat outside pieces called liners have a layer of grooved cardboard sandwiched between them. The wavy piece of paper stock is called fluted cardboard, and it comes in different sizes to provide different levels of strength.

– *The Pulp and Paper Times*

## Ashton Paper Mill starts production on single wire machine; Plant supplied by NKR Engineers

Corrugated packaging is becoming popular as sustainability becomes a more critical issue across the industry. It is simpler to recycle and the pulp and paper industry is already good at converting these into new generations of containerboard. These qualities indicate there has been a rise in popularity of corrugated protective formats over polymer-based alternatives, such as expanded polystyrene (EPS) foams.

"Packaging efforts have moved largely despite rising tariffs, and continued industrialization in countries like China,



India, and Brazil is expected to continue boosting growth. Products have become more diverse, and delivery options more advanced, meaning that unique boxes and materials are needed to package and protect goods. This need is prompting more corrugated box options, growing the industry despite increases in the price of corrugate,” said Dr. Reshma Mankar, Director of newly started paper mill, Ashton Paper Mill Pvt. Ltd.

“We are very glad of stepping in paper production for packaging sector. In December 2020, we rolled out our first reel of kraft paper on a single wire machine. We have already achieved 80 TPD production levels out of 100 TPD installed capacity. Our global population grows in size and affluence, our collective demand for packaging materials will increase drastically. We need packaging to store and transport our products, to protect valuable goods, pass information to consumers,” Dr. Reshma said.

Ashton Paper mill is situated at Lakhmapur, Ta.:Dindori, Nashik – Maharashtra, is producing Kraft paper under 80 to 200 GSM range with 14 to 22 BF. Paper is suitable for corrugated box manufacturing.

“Our entire plant and machinery is supplied by NKR Engineers, they have a proven track record in the paper industry and established several paper mills running successfully. NKR Engineers helped us in customizing the plant and machinery according to our need of paper quality. We have also installed all the critical components which are useful in automated the paper mill for reducing

manpower,” She said.

Ashton has bought pulp mill from Parason Machinery while boiler is from Omega (Vapi-Gujarat) with auto coal feeder function.

The new plant has 3.2 meter finished deckle. At the time of reporting this news, Ashton paper was selling 16 BF paper in INR 29 per kg and 18 BF in INR 30 per kg. They were procuring waste paper at INR 18.50 per kg. Ashton paper is diluting all the production in the domestic market within 200 KM range.

– **The Pulp and Paper Times**



## **A.Celli Paper to supply a tissue production line to Ukraine's Kochavinska Paper Factory**

A.Celli Paper will supply a tissue production line to the European tissue brand Kochavinska Paper Factory JSC, one of the Ukrainian leading producers of base paper and sanitary tissue products manufactured from waste paper.

A.Celli Paper's scope of supply comprises a complete tissue production line including an high efficiency iDEAL® START 1.500 tissue machine, equipped with an iDEAL® Forged\_YD Yankee cylinder. The new tissue machine, highly appreciated for low consumption, convenience and compactness, will have a design speed of 1.500 m/min with a reference production up to 80 t/d. An R-WAY® reel handling system and a three-ply E-WIND® T80S slitter-rewinder complete the supply.

The supply will feature A.Celli Paper's state-of-the art tissue technology, including two complete stock preparation lines, one for long fibers and one for short fibers. Top-notch mill engineering and a wide array of services provided by engineers with extensive experience in design and field activities are also included in the scope. Furthermore, the delivery will include an A.Celli Paper advanced DCS controls, innovative industrial automation applications and integrated systems.

The manufacture of the machinery will take place in Lucca, Italy and is expected to complete within 12 months.

The project assumes the construction of a

facility for the production of pulp-based tissue products to meet growing demand for high quality tissue products. It will enable Kochavinska Paper Factory JSC to enter the higher quality retail tissue segment, double its tissue production capacity and improve operating efficiency.

“We are very pleased to have signed this agreement with A.Celli, and we are proud to be developing our plans for technical and commercial expansion using the advanced technologies they offer” said the Head of the Supervisory Board and a major shareholder of JSC Kochavinska Paper Factory Mr. Mikhail Tytykalo, and the Head of the Board Mr. Roman Pyrig. “The iDEAL® PM line for hygiene products, which will be the heart of our factory, guarantees us great flexibility in production, high product quality and a big advantage in terms of energy savings. The success of our proposal depends on these decisions”.

– *Papnews*



## NEPA Mill on Revival Mode, to Begin Trial Run in July 2021

The work of renovation of the paper factory NEPA Mill is going through the final stages. Within a few months, the paper mill is expected to be operational. The first unit of the mill was expected to start; however, the work got delayed due to the second wave of Covid-19. But now it is expected that the trial of the paper machine will be done in July 2021.

It is worth noting that during the renovation of the mill, the trial of the de-inking plant has been completed. The trial of the power house is going on for two days, and then the trial of the ET plant will also be done within eight days.

According to the media reports — Mr. Sourav Deb, Chairman-cum-Managing Director, NEPA Limited states that “if the second wave of Covid-19 has not spread, we would have been in a position to start a unit in June itself, but now keeping in view the possibility of the third wave, the work will be completed at the earliest. The emphasis is on getting the work done.”

Around six multinational companies are continuously working to get the NEPA Mill started. Recently some new contractors have also joined the mill. This is the reason that NEPA Limited will now be in a position to test the paper machine in July. There is a possibility of conducting trials of all the departments simultaneously in the month of September, as the speed has been increased in view of the possibility of third wave.

According to Mr. Mahendra Kesari, Technical Secretary of CMD, the steam blowing process has been started in the project work of the powerhouse. This process is done for any type of internal cleaning in the new boiler so that clean and clear steam can be given to the turbine — to prevent damage to turbine blades. This process will continue for at least the next 7-8 days. The boiler will then be completely ready to provide steam for the turbine. After this, the powerhouse will be fully ready for commercial production in the next month.

– *Paper Mart*



## NEW TECHNOLOGIES

### Haber (eLIXA Technologies Pvt Ltd)

#### Automation can Reduce up to 60% of Microbial Growths in the System

##### Introduction

The pulp and paper industry uses immense amounts of water throughout the process and this makes microbial growth inevitable. The presence of fibers, synthetic polymer, starch and soluble chemicals serve

as accelerators to microbial growth, thereby increasing the organic load of the entire papermaking system. In the past, recycled fiber was used primarily in boxboard mills. Now, it is in almost all grades of paper. The use of recycled fiber can make microbial control more difficult, especially if the material contains coating of starch. The presence of these nutrients increases the potential of spoilage-related issues. Post-consumer recycled fibers are generally subjected to moist and dirty conditions and are often stored outdoors, uncovered. It



used to build an index called the Microbial Control Index (MCI). MCI is built in such a manner that it is related to the TBC. Thus, the microbial count can be predicted, enabling us to decide on the dosing of chemicals in real time.

as slime spots, holes and odour have reduced. Corrosion has also reduced due to lesser bacterial count. In short, eLIXA® helps to achieve

##### Results

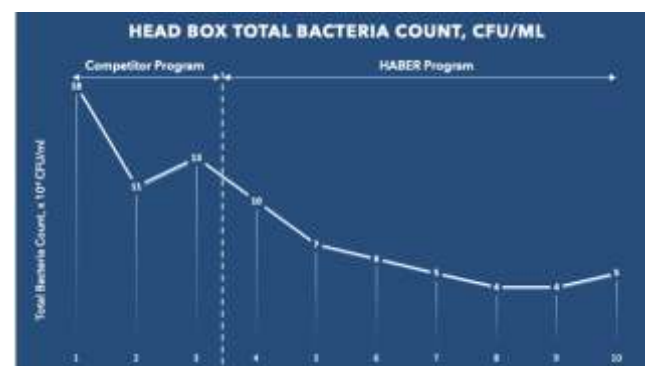
The solution has helped in controlling the total bacterial count. The headbox total bacterial count which was earlier around 13 - 18 CFU/ml (colony forming unit per ml) has been reduced to approximately 4 - 5 CFU/ml. In addition to this, it has also minimised unscheduled boil-outs, resulting in the better running of the system with an increased production rate. Product quality has improved

increases the bacterial load of the system, particularly with fungi. Recycled furnish can be contaminated with a higher loading of microorganisms than is typical of virgin pulp. On the whole, it can be said that the industry faces the problem of microbial growth from various sources and it is of high importance to keep that under check. Total Bacterial Count (TBC) is tested in the lab to understand the number of microbes present in the system, and then chemicals are dosed in order to keep them under control.

##### Approach

HABER's eLIXA® platform provides a Microbial Control Program which is based on real-time data of plant operating conditions. The best chemistry and the optimal dosages are decided based on the insights generated by eLIXA® using AI/ML algorithms. This makes the process of identifying the microbial count faster and enables us to take action at the right time. The process begins with measuring various crucial parameters of water like ORP, DO, pH and temperature. These are then

consistently better quality products with a minimum amount of investment and an easier maintenance cycle.





## Scan Machineries Pvt. Ltd.

### 1) Title – Board and Kraft Paper Machine Category - Paper Machines and Installation



Scan Machineries engineers, designs and manufactures complete Kraft and Board Paper Machines to produce Kraft Paper, Test Liner, Uncoated and Coated Board of higher grammage (GSM). Our Paper machines have paper deckle widths up to 6m and are capable of producing paper at high speeds maintaining excellent sheet formation and quality

### 2) Title – Writing and Printing Paper Machine Category - Paper Machines and Installation



Scan Machineries engineers, designs and manufactures complete Kraft and Board Paper Machines to produce Writing and Printing Paper, Newsprint, and Papers of low grammage or basis weights (GSM). Our Paper machines have paper web widths up to 6m and are capable of producing paper at high speeds maintaining excellent sheet formation and quality.

### 3) Title – Board and Kraft Two Drum Winder Category –

- A) Paper Converting Machinery
- B) Finishing and Converting
- C) Paper Machines and Installationa



Scan Machineries designs, engineers and manufactures Board and Kraft Paper Winders for Paper Manufactures producing high basis weights (gsm) at high design speeds. The Two Drum Winder is equipped with an Unwind Stand, a Slitting station and the Main Frame which houses the reel ejector, unwind stand including all the rolls. Automatic ejection of high quality rolls with excellent winding ensuring the right density of finished rolls. Contact nip pressure and winding tension are calibrated to the most precise settings for optimal production speeds and high capacity winding.

- Widths up to 7000 mm
- Operating Speeds up to 2000 mpm
- Unwind Diameters up to 3000 mm
- Finished Reels up to 2000 mm
- Automatic Tension Control, Nip Control and Torque Control (TNT)
- Robust and Compact Two Drum Winder
- Automatic and Semi-Automatic Slitter Positioning Systems
- Suitable for High Basis Weights (GSM)
- Perfect for Kraft Paper, Graphic Paper, Coated and Non-Coated Board

#### 4) Title – Writing and Printing Two Drum Winder Category –

- A) Paper Converting Machinery
- B) Finishing and Converting
- C) Paper Machines and Installation



Scan Machineries designs, engineers and manufactures Writing and Printing Paper Winders for Paper Manufactures producing low basis weights (gsm) at high design speeds. The Two Drum Winder is equipped with an Unwind Stand, a Slitting station and the Main Frame which houses the reel ejector, unwind stand including all the rolls. Automatic ejection of high quality rolls with excellent winding ensuring the right density of finished rolls. Contact nip pressure and winding tension are calibrated to the most precise settings for optimal production speeds and high capacity winding.

- Widths up to 7 m
- Operating Speeds up to 2000 mpm
- Unwind Diameters up to 3000 mm
- Finished Reels up to 2000 mm
- Automatic Tension Control, Nip Control and Torque Control (TNT)
- Robust and Compact Two Drum Winder
- Automatic and Semi-Automatic Slitter Positioning Systems
- Suitable for Low Basis Weights (GSM)
- Perfect for Tissue Paper, Decor Papers, Writing and Printing Papers

#### 5) Title – Hydraulic Jet Headbox Category - Paper Machines and Installation



The hydraulic headbox of Scan Machineries combines the highest paper quality with low energy costs. Paper quality is improved and at the same time allows substantial savings in energy costs for our customers. Precise cross profiles of grammage (CD profile) are maintained and fiber orientation is ensured. All internal surfaces in contact with the stock flow are finely polished. Turbulence generators are combined with tube banks and nozzles for efficient operation and excellent runnability. The slice lips are motorized to adjust the slice gap between the lips and for controlling the output of stock flow. All internal surfaces in contact with the stock flow are finely polished. Excellent stock dispersion from the headbox ensures the best sheet formation.

- Provides highest paper quality and sheet formation
- Well proven components for maximum efficiency
- Designed for maximum machine widths and highest speeds
- All movements are motorized with remote control
- Dilution system for CD profile control
- Speeds up to 2000 mpm
- Easy and fast maintenance

#### 6) Title – Air Pressurized Rectifier Roll Headbox Category - Paper Machines and Installation



The Air cushioned rectifier roll headbox of Scan Machineries combines the highest paper quality with low energy costs. Two evenor rolls for deflocculating are used in the air padded pressurized headbox. Paper quality is improved and at the same time allows substantial savings in energy costs for our customers. Precise cross profiles of grammage (CD profile) are maintained and fiber orientation is ensured. All internal surfaces in contact with the stock flow are finely polished. Turbulence generators are combined with tube banks and nozzles for efficient operation and excellent runnability. The slice lips are motorized to adjust the slice gap between the lips and for controlling the output of stock flow. All internal surfaces in contact with the stock flow are finely polished. Excellent stock dispersion from the headbox ensures the best sheet formation.

- Intended for Speeds up to 600 mpm
- Provides highest paper quality and sheet formation
- Well proven components for maximum efficiency
- Evenor rolls for better deflocculation
- Designed for maximum machine widths and medium speeds
- All movements are motorized with remote control
- Dilution system for CD profile control
- Easy and fast maintenance



## 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





## MEDIA SPEAK



### Tetra Pak named as one of the top 50 Sustainability and Climate leaders

Tetra Pak has been recognized as one of the world's 50 Sustainability and Climate Leaders. The leading food processing and packaging solutions company has been acknowledged for its commitment to pioneer a sustainable future, with a documentary showcasing its fascinating journey.

The video features interviews with Tetra Pak's Global Leadership Team members, highlighting how the role of food sector in tackling climate change is becoming even more imperative. They explain why accelerating de-carbonization and collaborations is critical to lead the sustainability transformation of the food packaging industry – addressing complex and multi-faceted challenges such as global warming, circularity and biodiversity.

Food is a critical but often overlooked element of the climate issue. The global food system accounts for 26% of global greenhouse gas (GHG) emissions, while 8% of total emissions are caused by food waste. In other words, if food waste were a country, it would be the world's third-largest producer

of emissions. Furthermore, the Covid-19 pandemic has exposed the weaknesses of the world's food system, which will only be further amplified by the expected growth of the worldwide population to 9.1 billion by 2050.

High-performance food packaging plays a critical role in feeding the world, but it must do so sustainably so that food availability does not come at the cost of the planet. This lies behind Tetra Pak's purpose - to commit to making food safe and available everywhere, in a way that protects what's good - protecting food, protecting people as well as protecting the planet. To minimize climate impact while helping to ensure food security for the future, the company takes a full life cycle view of its solutions. Always working collaboratively. This means:

Maximizing the use of renewable materials and sourcing them responsibly in a way that protects biodiversity

Minimizing the carbon impact of its operations as well as the one created by its value chain, for instance, by accelerating the switch to renewable energy and by stepping up investment to develop low carbon processing and packaging solutions

Enabling greater access to safe food while reducing food waste: the aseptic filling technology that Tetra Pak introduced to the food industry in the early '50s allows for ambient distribution and storage without requiring energy-intensive refrigeration

Driving an active agenda to develop sustainable recycling value chains

Adolfo Orive, president and chief executive officer at Tetra Pak, said, "Our company was

founded on the philosophy that a package should save more than it costs. Sustainability has always been at the core of everything we do; it is also a fundamental building block of our 2030 strategy, so we are proud to receive industry recognition for our work to date.

"We have already taken great strides on our journey to pioneer a sustainable future. However, with the current climate crisis and the potential food security challenges, we believe that the food packaging industry needs a major step-change in its evolution. Our ambition is to deliver the world's most sustainable food package. This means creating cartons that are fully made from renewable or recycled materials, are fully recyclable and carbon neutral. We see this as the only way to protect what's good – food, people, and the planet."

– FoodTecBiz

### Outlook of Paper & Tissue Industry in Bangladesh

Bangladesh is now one of the emerging economies of the world. The growth of this economy has a positive trend by a digit. The last couple of years the growth rate was rooting around 6%-7.30%. This economy is 29th largest considering the its purchasing ability. According to an economic outlook published recently by IMF the economy of Bangladesh is going to grow by a positive 3.8% even in the face of COVID-19 during the year.



Policy reforms, better governance, motivated human resource along with stable inflation condition and macro-economic environment helped Bangladesh to become a role model of sustainable development for the least developed countries. Bangladesh is now placed in the middle-income transitions and continuing its focus on easing infrastructure bottlenecks, improving of livelihood, set up manufacturing units, reduce the import, increase the export and containing of cost of doing business skills and resilient private sector have contributed to this positive growth trajectory. Bangladesh is expected to graduate from least developed countries (LDC) list by 2024 and is now a role model for developing and least developed economies. As an important material the paper and the

allied products taken a significant position worldwide. The growth of last few decades was noticeable. It was due to increases in population, literacy rates, and quality. Due to its daily usages, the global production of paper and cardboard stood at approximately 419.7 million MT in 2017 and expected to be 490 million MT by this year of 2020. More than half of that production was attributable to packaging paper, while almost one third was attributable to graphic paper. The world's three largest paper producing countries are China, the United States, and Japan.

#### Papers and allied products – Bangladesh

The paper and pulp industry is one of the largest industries in the world. The industry dominated by North American, Northern European and East Asian companies. Latin America and Australasia also have significant pulp and paper industries. Over the next few years, it is expected that both India and China will become key players in the industry. On the other hand, Paper industry in Bangladesh has been on a positive growth trajectory as the demand for paper rising on both the local and international markets. Only a few years back, imported paper met a large portion of domestic demand, but now the market share and the capacity of local manufacturers has grown significantly. Historical data suggests that Bangladesh began its first paper production in the year of 1953 when Karnaphuli Paper Mills was established by government's initiatives.

Since then, private manufacturers have come forward and join the industry. The

number of paper mills has now increased to 100 from around 50 five years back, while 15 or 20 more units are under process to go into operation soon. These paper mills produce different grades of paper including writing, printing, liner, media, simplex, duplex, board, newsprint, cigarette paper, packaging products. BPML has continued to hold about 30% market share of the paper and paper products sector. Considering the production and supply of the paper and paper products there is an opportunity for around 1,00,000 MT per year. By the year 2020, private sector paper mills have outperformed government mills who currently have a bare minimum of 3% market share.

#### Tissue Paper and Allied Products –

The market size of tissue paper has more than doubled within a decade in Bangladesh courtesy of urbanization, growing per capita income and increasing health consciousness among people. The yearly tissue production capacity of the country was more than 84,000 tons in recent year, up from 30,000 tons in 2016-17. Bangladesh has not only become almost self-reliant in the segment but is also exporting the product to more than 23 countries, including the UK, Australia, Bahrain, the UAE, China, India and Bhutan. The export size around 1,238 tons yearly. Data from 2018 suggests that per capita tissue consumption is about 4.1 kg per year in Bangladesh. The company being the industry leader, started commercial production of tissue and in the year of 1997. It now has about 80% of market share in terms of tissue paper. As part of tissue paper, the hygiene product's consumption is growing up

due to the increased health issues and health awareness.

#### Demand and Supply Gap:

With the increased use of papers and paper board, literacy rate, change of lifestyles as well as awareness of hygiene products the demand upward trend is expected to reach its all-time high. Per capita income has also increased and so did the expendable income. There is shortage in supply of paper and tissue paper globally besides China, one of the largest paper producers have closed numbers of paper mills of their environment issue. Under these circumstances demand for paper products are expected to increase locally and globally. It is projected that the demand for paper products (mainly writing paper and hygiene products) will reach at about 10 lakh tones annually in the domestic market. Our nationwide awareness development program through discussion, meeting and seminar has well driven people towards increased sense of sanitation. As a result, there will be a surge in demand for our hygiene products. Currently we are operating at 80-85% of our capacity and generating about 1,15,000 tons annually. Previously installed brand-new automated machineries added more than 30,000 tons yearly. Meanwhile our company added many facilities from time to time which we hope will enable us to take the opportunity of supply in upcoming days.

#### Market Competition:

There are more than 100 modern paper mills out of which 41 mills are running and are

producing a huge quantity of paper and paper products in our local market. The scenario has been by just for few years. And since the establishment of small numbers of paper mills in the private sector, these industries started to take lead and since then trying to make this country self-sufficient in production of paper and paper products to ensure the domestic demand.

During late 1950s the paper industry of Bangladesh went into operation and more than 100 paper mills were established meanwhile, and 41 local private paper mills were in operation producing more than 600,000 MT of paper and paper products per year. The paper industry has proved as a potential sector in Bangladesh and may become one of the foreign currency earners of this country.

In order to reduce dependency on imported items, the local producers of paper and paper board have to cut down their production to some extent. Most of the local paper mills compelled to produce paper and paper board utilizing only half of their capacities. By introducing modern technology, the paper producers adding values to this sector, and foreign buyers have started coming to import paper products because of the good quality from Bangladesh. Recently, many factories in China and some European countries were set close due to higher production costs and environmental issues, bringing up hopes for Bangladesh.

– *The Pulp and Paper Times*



### **NRAIL reports INR 116 Cr. net profit in FY 19-20; invested INR 50.54 Cr in infrastructure and process modernisation**

One of the leading manufacturers of quality producers of the Paper & Packaging Board in India, N R Agarwal Industries (NRAIL) is pleased to record revenues and profit after tax in FY 19-20, which surpassed the best it had achieved in the previous financial year. During the year under review, NRAIL reported profitable growth as revenues increased 6.58% while EBITDA increased 18.50% and profit after tax strengthened 23.36%.



“NRAIL’s record performance of FY 19-20 was not the result of a short-term spike in paper realisations that generated a one-time windfall, but was the result of a number of initiatives that enhanced profitability,”

“The modernisation programme increased machine efficiency with increased speed and full utilisation of assets, which helped the Company report higher sales on the one hand and amortise fixed costs effectively on the other. The increased deinking efficiency enhanced pulp yield that reduced resource cost. The Company’s investment in a reverse osmosis plant enhanced the recycling of process water that, in turn, reduced the quantity of waste water discharge,” said Mr. R N Agarwal, Chairman & Managing Director of NRAIL in the annual report for FY 19-20

During the previous financial year, NRAIL had invested INR 50.54 Cr in infrastructure and process modernisation with the objective to strengthen efficiency. The sum of these initiatives paid off during the year under review, generating a range of attractive upsides.

A visible impact of the modernisation was a superior paper quality, which strengthened average sales realisations.

Mr. Agarwal further said that it would be simplistic to assume that the improvement in our performance was achieved only through investment in the latest technology. It was achieved through an overarching culture of pushing the frontier, empowering workers and questioning convention. This was reflected in proactive periodic shutdowns of manufacturing assets for maintenance when this is not the usual

industry practice; the senior management deepened the practice of cross-functional engagement that empowered shop-floor workers to explore cost reduction and operational improvements.

“We believe that our Balance Sheet will continue to right-size considering that our modernisation investments were made in projects with a three-year payback, returns from most already having commenced. We believe that even as market conditions remain sluggish, the Company expects to remain among the last persons standing and among the better placed to make an advance as soon as conditions revive,”

“In an environment when the consumer sentiment appears uncertain, the Company has selected to defer its proposed duplex board capacity expansion. A decision on this expansion will be taken when market conditions improve and when there is better revenue visibility,” he said.

The Pandemic Impact:

The performance of the company was affected from the second half of March 2020 when the first signs of the Covid-19 pandemic began to become evident across India. The packaging board, which is almost 50% of our total production, has good potential as it is used to package the essentials like pharmaceutical, food, cereals etc. However, the other grades like writing and printing and copier may witness downward or no growth in demand with work from home practices, online education systems and other digital platforms taking a lead due to the pandemic. However, we are

confident about our ability to manage this crisis through our financial stability, our dealers and consumers, our committed employees and our quality of leadership.

As schools began to shut, the offtake of writing & printing paper declined. This affected the offtake of the Company’s writing & printing paper products and, in turn, our manufacturing operations where capacity utilisation declined to around 46% in the first quarter of the current year.

However, the off take of the Company’s packaging board business remained largely unaffected. Since this business serviced the growing needs of the FMCG and pharmaceutical sectors, whose sales sustained through the lockdown, the impact on this segment was moderate. The manufacturing operations of the Company’s packaging board remained shut for a period of 30 days.

#### STATE OF COMPANY’S AFFAIRS

N R Agarwal Industries Limited is pleased to present record revenues and profit after tax in 2019-20, which surpassed the best it had achieved in the previous financial year. During the year under review, the company reported profitable growth as revenues increased 6.58 per cent while EBIDTA increased 18.50 per cent and profit after tax strengthened 23.36 per cent. The improvement in performance was also accompanied by an improvement in business health. The company reported an increase in EBIDTA margin from 14.62% in 2018-19 to 16.25% in 2019-20.

During the year under review, the combined production from Packaging Board, Writing & Printing paper and Copier stood at 338988

MT and the capacity utilization stood at an average of 93%. The Company is continuously focusing on improving operating efficiencies and reducing costs with for better financial performance. The Company continues to enjoy the dominant position of being a world class quality manufacturer of Duplex Board in India.

Communicate to stakeholders, Mr. Agarwal says that there will be a decline in our revenues and profits during the current year. However, N R Agarwal will continue to remain profitable on account of a broad-based business model. The Company will protect the integrity of its Balance Sheet and its competitiveness till the time.

The Report also give an overview of the paper industry and says, the Indian paper and paper products market is projected to grow from US\$ 8.6 billion in 2018 to US\$ 13.4 billion by 2024, growing at a CAGR of 7.8% during 2019-24. Growth of the manufacturing sector, increased requirement for better quality packaging of FMCG products and the demand for the upstream market of paper products, such as tissue paper, filter paper, light-weight online coated paper and medical grade coated paper, are expected to be catalysts of the growth of the Indian paper and paper products market over the foreseeable future.

The value of the Indian packaging industry was pegged at US\$50.5 billion in 2019 and is projected to reach a value of US\$204.81 billion by 2025, growing at a CAGR of 26.7% between 2020-25. The rapid growth of the industry is driven by the growth of the

pharmaceuticals and the foods and beverages industry. Besides this, the rise of the middle class, growth of organised retail and exports, coupled with India's booming e-commerce sector, have been the major catalysts of growth for India's packaging industry. The total packaging consumption in India has increased ~200% over the past decade, rising from 4.3 kg per person per annum to 8.6 kg per annum.

**– The Pulp and Paper Times**



# 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

### Pneumech Hydro Systems



#### **Pneumech Hydrosystems**

Incorporated in the year 2015, at Ghaziabad, Uttar Pradesh, India, we, "Hydrosystems," are a distinguished manufacturer

and supplier involved in offering a wide array of Engineering Goods and Industrial Supplies for wide industrial applications. With annual turnover of Rs. one cr.

We fabricate premium quality Mobile Tube Bending Machine, Hydraulic Accessories, Customize Manifold Block, Paper Machine, Dowty Seal, Tube Clamps, Tube Fittings, Hydraulic Cylinders, Hydraulic Power Unit, Control Desk and Copper Washers.

Our organization has seen growth by leaps and bounds and holds specialization in this domain. Due to his versatile knowledge and experience, we are able to provide a quality range of Industrial Supplies and are maintaining pace with the international market demands.

**We are also involved in offering esteemed services in our arena that include Servicing of Hydraulic Power Units, Hydraulic Cylinders, Installation & Commissioning of Hydraulic & Pneumatic Systems, etc. Besides this, we also undertake projects on turnkey basis for Hydraulic & Pneumatic Tubing in SS, CS & Copper. Our rich technological knowledge and experience in the domain have earned us many respectable clients from both domestic and international market.**



### Hydraulic Accessories



### Hydraulic Power Unit



## Hydrosystems

Incorporated in the year 2015, at Ghaziabad, Uttar Pradesh, India, we, "Hydrosystems," are a distinguished manufacturer and supplier involved in offering a wide array of

Engineering Goods and Industrial Supplies for wide industrial applications. We fabricate premium quality Mobile Tube Bending Machine, Hydraulic Accessories, Customize Manifold Block, Paper Machine, Dowty Seal, Tube Clamps, Tube Fittings, Hydraulic Cylinders, Hydraulic Power Unit, Control Desk and Copper Washers.

Our organization has seen growth by leaps and bounds under the dynamic leadership of our mentor, Mr. Manoj Tiwari, who holds specialization in this domain. Due to his versatile knowledge and experience, we are able to provide a quality range of Industrial Supplies and are maintaining pace with the international market demands.

We are also involved in offering esteemed services in our arena that include Servicing of Hydraulic Power Units, Hydraulic Cylinders, Installation & Commissioning of Hydraulic & Pneumatic Systems, etc. Besides this, we also undertake projects on turnkey basis for Hydraulic & Pneumatic Tubing in SS, CS & Copper. Our rich technological knowledge and experience in the domain have earned us many respectable clients from both domestic and international market.

### Product Portfolio

We are one a leading manufacturer and supplier engaged in offering a wide range of Industrial Supplies that includes Hydraulic Power Units, Hydraulic Pumps & Valves and Tube Fittings & Accessories. Forged from premium quality material of construction and alloys, these have sturdy construction and durable finish standards.

## Service Portfolio

Powered with a brilliant team of technically proficient workers and other pro-active workers, we also offer services like Installation, Commissioning of Hydraulic and Pneumatic System. These services are provided with the assistance of technically proficient and expert professionals with years of experience in their respective domain.

### Our Services include:

- **Installation & Commissioning of Hydraulic & Pneumatic Systems**
- **Modification of Systems**
- **Hydraulic & Pneumatic Tubing in SS, CS & Copper on Turnkey Basis**
- **Servicing of Hydraulic Cylinders**
- **Servicing of Hydraulic Power Units**

## Sangal Papers Ltd.



### Sangal Papers Ltd. (located in Mawana, India)

is a paper-manufacturing unit incorporated in 1980 by Sangal family. Since 1980 we have been committed to quality and competitive pricing policy which has helped us in emerging as one of the leading players in paper manufacturing industry. Presently the company is a major manufacturer and supplier of newsprint paper. To keep pace with increasing demand, the company has added a lot of specialized grades of products to its portfolio and has

increased its capacity to current level of 36000 TPA.

At Sangal Papers Ltd preservation of environment has always been of foremost importance. All the products are manufactured from 100 % recycled grade of waste paper. In addition to this, we have our own effluent treatment plant (ETP) which takes care of any chemical run-off, thereby preserving the environment. Company is using co-generation method for self-production of electricity by using steam generated turbines which are fully environment friendly.

Our focus is on attaining Global Quality and Customer Satisfaction. Quality being our primary concern, we follow standard quality measures at all production and processing stages. We conduct rigorous quality tests using advanced instruments and equipments. We enjoy a huge client base, as our products have reached beyond the national boundary.

We have three machines which are outfitted with a series of advanced equipments. Machine 1 caters to writing & printing, activity/high bulk and construction paper segment. Machine 2 is engaged in newsprint manufacturing. Machine 3 manufactures MG varieties. We are supported by a competent workforce, having years of rich industry experience behind them. Our marketing strategies and distribution systems are such that clients are served on the highest priority basis up to their utmost satisfaction.



## Scan Machineries Pvt. Ltd.

**SCAN**  
MACHINERIES

### Paper Machine Manufacturer for Paper Industry

Scan Machineries engineers, designs and manufacturers complete Paper Machines and undertakes Turnkey Paper Mill Projects for various Paper Mills across the Globe. We offer a wide range of Paper and Pulp Machinery for Kraft Paper, Writing and Printing Paper, Newsprint, Specialty Paper, Graphic Paper, Tissue Paper and Packaging Board Paper for the Paper Industry. We design and manufacture complete paper production lines, paper mill turnkey projects, complete paper making machines, wetlap machines, paper machine sections, automated plants, paper machinery, pulp machinery, stock preparation, headbox, wet end section, press section, dryer section, size press, coating section, calender section, pope reel, winders, rewinders, press rolls, felt rolls, suction rolls and paper rolls. We also undertake paper machine rebuilds, consultancy services for various paper mills and dismantling and relocation of complete paper machine production lines.



### Paper Technology

Our state of the art Paper Machinery with our vast technical expertise and knowledge in the Pulp and Paper Machinery Manufacturer for more than 30 years proves diligence of being a very well recognized and sought after manufacturer in the Industry. All of our machinery is designed by our expert design team having immense knowledge in Paper Technology and is manufactured in house by our complete set of assembly lines. We work closely with a wide range of clientele from different parts and regions across the globe.

Contact us with your enquiries. Our sales team will be more than glad to help and offer the best solution ensuring high productivity and energy efficiency while empowering sustainable energy through all our machinery. The more specific your machine has to be, the more you will feel our enthusiasm in finding the ideal solution just for you



## 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