

News and Views... 

October 27, 2020



08 - 10 | APRIL 2021

Chennai Trade Centre, Chennai, INDIA



a Hyve event

6 - 9 | DECEMBER 2021

Pragati Maidan, New Delhi, India

INDEX

	INDUSTRY NEWS.....	3 - 8
	INDUSTRY UPDATES.....	9 - 16
	NEW TECHNOLOGIES.....	17 - 21
	PARTNERSHIP OPPORTUNITIES.....	22
	INDUSTRY SPEAK.....	23
	MEDIA SPEAK.....	24 - 28
	PAPEREX 2021.....	29
	SOME LEADING COMPANIES AT THE EVENT.....	30

INDUSTRY NEWS



Covid-19: India's recovery rate touches 90% as active cases continue to fall

India's COVID-19 tally climbed to 7,8,64,811 with 50,129 fresh cases in a day, while 70,78,123 people have so far recuperated pushing the national recovery rate to 90.00% on Sunday, the Union health ministry said.

The total number of coronavirus cases mounted to 7,8,64,811 and the death toll to 1,18,534, with the novel coronavirus virus claiming 578 lives in a span of 24 hours in the country, the ministry data on Sunday showed.

The COVID-19 case fatality rate has further declined to 1.51%.

There are 6,68,154 active cases of coronavirus infection in the country which

comprises 8.50% of the total caseload, the ministry data said.

According to ICMR, a total 10,25,23,469 samples tested for covid-19 up to 24 October. Of these, 11,40,905 samples were tested yesterday.

The country's infection tally had crossed the 20 lakh-mark on August 7, 30 lakh on August 23 and 40 lakh on September 5. It went past the 50 lakh-mark on September 16, 60 lakh on September 28 and crossed 70 lakh on October 11.

Kerala on Saturday reported 8,253 new COVID-19 cases, taking the total infection count to 3,73,148, while 25 fatalities pushed the toll to 1,306.

Out of the new cases today, 7,084 people contracted the virus through contacts, 163 came from outside the state, while the source of infection of 939 patients was not known, Health Minister K K Shailaja said in a release.

Maharashtra's COVID-19 tally on Saturday increased to 16,38,961 with 6,417 new cases, said a state health official.

The state also reported 137 deaths, taking the death toll to 43,152, he said.

The coronavirus tally in West Bengal rose to 3,45,574 after 4,148 people tested positive for the disease, while 59 fresh fatalities pushed the death toll to 6,427, it said.

Delhi on Saturday recorded 4,116 fresh COVID-19 cases, the highest single-day spike in 35 days, while the death toll from the disease mounted to 6,225, according to a Delhi government bulletin.

- LiveMint

Coronavirus India Highlights: Entire country deserves free vaccine, says Delhi CM Arvind Kejriwal

Delhi Chief Minister Arvind Kejriwal on Saturday said the COVID-19 vaccine should be made available throughout the country for free. "The whole country should get free COVID-19 vaccine. It is a right of the entire country. All the people are troubled by the coronavirus, so the vaccine should be free for the country," Kejriwal told reporters after inaugurating two flyovers in northeast Delhi. A debate has started on whether the COVID-19 vaccine, which is yet to materialise, should be made available to people for free, with the Bharatiya Janata Party (BJP) promising free doses of the vaccine in its manifesto for the Bihar polls. Earlier today, Former Maharashtra chief minister Devendra Fadnavis Saturday said in a tweet that he has tested positive for Covid-19 and asked those who have come in contact with him to get themselves tested.

India today recorded 53,370 new Covid-19 cases, taking its total caseload to 78,14,682, while 650 fatalities pushed the death toll to 1,17,956, according to data from the Union Health Ministry. Active coronavirus cases in the country stand at 6,80,680 while 70,16,046 people have recovered from the disease so far, the data stated. The national recovery rate has improved to 89.78 per cent, the ministry said.

- The Indian Express



PM Modi Says Covid-19 Fatality in India is 83 Per Million Population Compared To US, Brazil, Spain | A Look at Overall Figure

While addressing the nation for the seventh time ever since nationwide lockdown was announced due to Covid-19 outbreak, Prime Minister Narendra Modi on Tuesday warned the countrymen that lockdown may have ended, but the virus is still out there and urged people not to be complacent and drop their guard in the fight against Covid-19. Beginning with his speech, PM Modi emphasized that India is doing better than many developed countries in the fight against coronavirus. He said the fatality rate in India is 83 out of every 10 lakh people, whereas it is more than 600 in countries like the US, Brazil, Spain and Britain.

"The fatality rate in India is 83 out of every 10 Lakh population in India, whereas it is more than 600 in countries like the US, Brazil, Spain, Britain", said PM Modi while addressing the nation on Tuesday ahead of the festive season coming. He even warned the citizens not to take the virus lightly by pulling off his slogan "Jab tak dawai nahi, tab

tak dhilayi nahi". He urged the citizens to take precautions to curb the spread of the virus.

The first case of Covid-19 originated in the Hubei district of Wuhan Province of China. While India reported its first case on 30 January, originated from China. Since then the cases have only seen surge, even when the government imposed complete lockdown.

Currently, more than 40.4 million cases of Coronavirus disease have been reported worldwide. Out of which more than 27.7 million people have recovered while the death toll stands at 1.12 million. The average recovery rate across the globe stands at 68.56 per cent, while the fatality ratio is of 2.79 per cent. In worldwide tally of Covid-19 cases, India stands second with 7.6 million total cases, with more than 6.73 million recovered and around 1.15 lakh deaths. When compared with other countries like America stands first in the tally with 8.26 million cases, 5.5 million recoveries and around 2.25 lakh deaths.

For one million population in the US, 25,239 cases were reported followed by 673 deaths along with a recovery rate of 64.3 per cent and fatality rate of 2.7 per cent. While for India, the country reported just 80 fatalities. Likewise Brazil's fatality rate stands at 748 per million and an average recovery rate of the country is 89.1 per cent.

Meanwhile, Russia record stands at 10,000 cases 7,538 recoveries and around 172 deaths cases per million. With a recovery rate of 75.38 per cent and fatality ratio of

1.72 per cent. Even in Spain, that once topped the coronavirus tally earlier this year, out of 1 million people, the country reports 19,666 cases, 3035 recoveries and 686 deaths. Recovery rate of Spain stands at 15.4 per cent and fatality at 3.4 per cent. Even though India ranks second in terms of transmission of the deadly virus, the country reports as low as 80 fatalities per million comparing with the other countries like America, Brazil and Russia. With such minimal fatality rate, experts believe that India can very soon win the fight against Covid-19 or at least be the least affected nation in terms of overall death due to the contagion.

– ABP Live



Coronavirus India HIGHLIGHTS: Possibility of Covid-19 reinfection if antibodies reduce in five months, says ICMR

The Health Ministry in its briefing on Tuesday said that India has the largest number of COVID-19 recovered cases in the world. The ministry added that while many countries have reported a surge, India has recorded 310 cases per million in the last seven days, which is among the lowest globally. Six states – Maharashtra, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh and West Bengal – account for 64% of the country's total active cases. ICMR director-general Balram Bhargava said that there is a possibility of reinfection if antibodies reduce in any person in five months. "That is why it is important to wear masks and take precautions even if one was infected earlier", he added.

In his seventh address to the nation since the coronavirus outbreak, Prime Minister Narendra Modi Tuesday said the lockdown might have been lifted in the country but the "virus is still out there". "In this festive season, markets are bright again but we need to remember that the lockdown might have ended but Covid-19 still persists. With efforts of every Indian over last 7-8 months, India is in a stable situation we must not let it deteriorate," PM Modi said.

Meanwhile, Union Railways Minister Piyush Goyal on Tuesday said the national transporter will allow women to travel on suburban trains in Mumbai from October 21 between 11 am to 3 pm and after 7 pm. "We were always ready and with the receipt of letter from Maharashtra Govt today, we have

allowed this travel," Goyal said in a tweet. Railway officials said that before the lockdown, 24 lakh women commuters used the suburban railway system daily. Suburban train services were shut down on March 23. Partial resumption of services was announced on June 15. However, only those deemed to be essential service providers are allowed to board these trains after being allotted a special pass.

With 46,790 new cases reported across the country, the coronavirus infection has now affected close to 7.6 million people in India. As many as 587 deaths were reported in the last 24 hours, taking the toll to 1,15,197. Of the 75,97,063 cases, 7,48, 538 cases are still active, while recoveries stand at 66,33,328. It was in July when India had reported a spike of 48,513 single-day coronavirus cases. The infections in India have increased since then, going up to over 97,000 one-day cases in September.

– The Indian Express

Chinese vaccine at \$60, US to resume Oxford trial, health card in India: Covid-19 vaccine latest updates

With the UK government going for human challenger trial to quicken the pace of rolling out an effective Covid-19 vaccine, the race among countries to immune its nationals has been hotting up.

Here are the latest developments from across the world:

Chinese vaccine at \$60

A city in China's Zhejiang province will offer

experimental coronavirus vaccines to its residents, as China broadens an emergency use programme to people in non-priority groups, Reuters reported.

Residents aged between 18 and 59 in the city of Shaoxing, who are not in priority groups, can apply online for inoculation. It did not name the vaccine, say when inoculation would start or how many doses would be offered.

Shaoxing residents that choose to be inoculated will need to give reasons for wanting the vaccine on their applications and will be charged 400 yuan (\$60) for two doses, with an additional inoculation fee of 28 yuan per dose, the city said.

US likely to resume Oxford trial

The United States will give its nod to resume the trial for Oxford-Astrazeneca vaccine which was stopped in the country in September after the pharma company admitted adverse effect on two participants. The trial in other countries including India, the UK, Brazil resumed after a brief pause. But it was halted in the US so far.

Health card will be used in India, but not mandatory

As Prime Minister Narendra Modi is emphasising on IT-based delivery of Covid-19 vaccines, it has been decided that health card ID under the National Digital Health Mission will be used to make vaccines available to all Indians. But the health ministry has clarified that it will not be mandatory. Other digital IDs will be used in case people don't have health card.

– Hindustan Times



Indian economy at doorstep of recovery, says RBI governor

The Indian economy is at the “doorstep of revival” and both the government and the Reserve Bank of India are maintaining an accommodative stance, according to the central bank’s governor Shaktikanta Das. An accommodative stance means being prepared to provide all the funds required to support growth. His statement comes a fortnight after he forecast that the economy would break out of contraction in the fourth quarter

“Today, we in India are at the doorstep of the revival process after the impact of the pandemic. Many financial entities have already raised capital and others are planning and would do so in the coming months” said Das. He said that the RBI has asked lenders to raise capital not just to strengthen their resilience to overcome stress but also to have enough support growth and ensure that credit flow is maintained when the economy enters the revival phase.

He was speaking at the launch of veteran bureaucrat N K Singh’s autobiography ‘Portraits of Power’. Das recalled his interactions with Singh when the latter headed a panel to review the law on fiscal responsibility and budget management. Responding to a question from HDFC chairman Deepak Parekh, Das said that at the moment, both fiscal and monetary policies are working in close symmetry despite the government already exceeding the combined deficit target. “The Government has taken prudent and calibrated measures. These are aimed at providing support to the vulnerable sections of society and then provide certain kinds of relief to the other segments of industry and business – the micro small and medium enterprises. The RBI is already in a momentary expansion mode. We have used instruments and tools which were never in the tool kit of the RBI and we are constantly trying to innovate”, he said. In response to another question on financial sector reforms from Kotak Mahindra Bank MD & CEO Uday Kotak, Das said that today these have become ownership agnostic. The

RBI governor pointed out that the focus is on governance reforms – the functioning of the bank, its board committees and CEO.

“When we talk about reforms in banking, it is generally linked to ownership in banks or non-banks. In today’s context, after the global financial crisis, the issue of governance has become important”.

– *The Times of India*





India recorded export growth of 4 per cent in Sept: UNCTAD

Export growth declined in India in the third quarter of 2020 relative to the same quarter last year but picked up pace in September, according to a global trade update by the UN. The UNCTAD's new global trade update said that global trade recorded a 5 per cent drop in the third quarter of 2020 compared with the same period last year. This marks an improvement on the 19 per cent year-on-year plunge recorded in the second quarter, and the United Nations Conference on Trade and Development (UNCTAD) expects the frail recovery to continue in the fourth quarter. India's export growth saw a decline of 6.1 per cent in the third quarter of 2020 as compared to third quarter of last year. However India recorded export growth of four per cent in September, it said. Depending on how the COVID-19 pandemic evolves in the winter months, the UN trade and development body expects the value of global trade to contract

by 7 per cent to 9 per cent with respect to 2019.

"The uncertain course of the pandemic will continue aggravating trade prospects in the coming months," UNCTAD Secretary-General Mukhisa Kituyi said. "Despite some 'green shoots' we can't rule out a slowdown in production in certain regions or sudden increases in restrictive policies."

Although a 7 per cent to 9 per cent decrease would be a negative finish for the year, Kituyi said it's a much more positive result than was expected in June, when the UNCTAD had projected a 20 per cent year-on-year drop for 2020. Since then, trade trends have improved primarily thanks to the earlier-than-expected resumption of economic activities in Europe and east Asia, it said.

The UNCTAD said the sharp and widespread decline in international trade in Q2 2020 was similar for developing and developed countries. But exports from developing economies appear to be recovering faster. Year-on-year growth of developing nations' exports improved from -17 per cent in the second quarter to -6 per cent in July, while those from developed nations increased from -22 per cent to -14 per cent. South-South trade - commerce among developing countries - has shown some resilience, with the year-on-year decline sitting at 8 per cent in July, up from 16 per cent in the second quarter.

The report's assessment of trade in different sectors said that the pandemic has hit the energy and automotive industries the hardest, while mitigation responses including teleworking and personal

protection measures have led to strong growth in sectors such as communication equipment, office machinery, and textiles and apparel.

UNCTAD's analysis gives special attention to COVID-19 medical supplies, which include personal protective equipment, disinfectants, diagnostic kits, oxygen respirators and other related hospital equipment. According to the report, exports of COVID-19 medical supplies from China, the European Union and the United States rose from about USD 25 billion to USD 45 billion per month between January and May 2020.

The increase in such trade, however, has primarily benefited wealthier nations, with middle- and low-income countries largely priced out from access to COVID-19 supplies, the report says. The UNCTAD warns that if a COVID-19 vaccine becomes available, the access divide between residents in wealthy and poor countries could be even more drastic.

While some low-income countries have the capacity to locally manufacture some protective equipment, this may not be the case for vaccines, which require stronger manufacturing and logistics capacities. The report calls on governments, the private sector and philanthropic sources to continue mobilizing additional funds to fight the COVID-19 pandemic in developing countries and to support financial mechanisms, such as the global COVAX initiative, to provide safe and effective COVID-19 vaccines to poor countries

– The Economic Times



Indian economy set for a near double-digit contraction this fiscal

The Indian economy will suffer its deepest contraction on record this fiscal year and recent government stimulus does not go far enough to significantly boost activity depressed by the coronavirus pandemic, according to economists polled by Reuters.

With over 7.6 million coronavirus infections, India is the second worst hit country in the world after the United States and the spread shows no signs of abating.

While the government has removed most restrictions imposed on businesses to slow the spread of the virus, the Reserve Bank of India issued gloomy economic forecasts earlier this month but kept interest rates unchanged citing rising inflation.

That puts the onus on the government, which last week announced another round of fiscal stimulus to boost demand by \$10 billion.

But the Oct. 13-21 poll of 55 economists showed they were more pessimistic about this fiscal year's outlook than just two months ago. Nearly 90% of economists, 34 of 39, who responded to an additional question said the latest government stimulus was not enough to boost the economy significantly.

"While the measures introduced to push consumer spending and capital expenditure are clearly innovative within the confines of fiscal prudence, they do little to move the needle significantly in terms of the growth outlook this (fiscal) year," said Sakshi Gupta, senior economist at HDFC Bank.

After shrinking a record 23.9% in the April-June quarter, the Indian economy was forecast to contract 10.4% and 5.0% in the third and fourth quarter, respectively and merely stabilize in the first three months of 2021.

That compares with contractions of 8.1% and 1.0%, respectively, and 3.0% growth forecast in August.

For the current fiscal year ending March 31, Asia's third-largest economy was predicted to shrink 9.8%, more than the RBI's latest 9.5% projection, and 26 of 55 economists saw a contraction of 10% or more for the year.

The poll marks the seventh consecutive downgrade to this year's outlook and if confirmed, would be the weakest annual economic performance since records began six decades ago.

Although the economy was expected to grow 9.0% and 5.7% next fiscal year and in FY 2022-23, respectively, all but one of 36 economists

with a view said it would take at least a year for Indian GDP to reach pre-COVID-19 levels. Despite higher inflation projections, economists expect the central bank to be more concerned about reviving growth than price pressures driven by supply-side disruptions and to cut interest rates next quarter.

"The problem is we are unlikely to have any immediate assessment of the extent of durable damage to the supply chains in the economy. On the demand side, job losses and salary cuts mean lower demand for longer," said Indranil Pan, chief economist at IDFC First Bank.

"Any onset of a second wave (of coronavirus) as is being witnessed elsewhere could derail the normalization process and put the projections in jeopardy."

– The Economic Times



Hyve India Pvt Ltd has come up with a weekly e news alert program - 'Market News & Views'

This program 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



Seshasayee Paper reported Net profit of INR 174 Cr. for FY 19-20; Mill Development Plan-III kick started to Increase Capacity

The year 2020 began on a strong note for the Paper Industry, continuing with the strong market sentiments witnessed during the earlier year. Realisations in Domestic and International Markets continued to be favourable in Q1 of 2019-20,” Said by N Gopalaratnam Chairman of Seshasayee Paper and Boards Limited, in Annual reports of FY 2019-20.

He accepts that consequent pressure on the selling prices commenced in the latter half of the 2nd Quarter and continued thro’ to the subsequent 2 quarters due to deceleration in the growth of Indian Economy with falling GDP growth, month after month; Reduction in prices of pulp and consequent reduction in prices of paper in the overseas markets,

triggering larger imports into India and creating price-war with domestic suppliers and huge increase in imports of paper by Traders, from ASEAN countries, China, Korea, etc, taking advantage of Import Duty concessions available for such imports.

Further revealing the capacity enhancement plan of the Seshasayee Paper, Mr. Gopalaratnam said, the Company has now embarked on a Mill Development Plan - III (MDP - III) at Unit : Erode at a Cost of INR 315 crores. The execution of the Project, MDP-III, has commenced with July 01, 2020 as the Zero Date with an originally planned project execution period of 21 months. However, with some of the major suppliers and service providers, both globally and in India, located in Covid-19 lockdown areas Company expects a delay in the execution of the project.

During the year, the production at Unit : Erode was 1,25,313 tonnes of paper, as compared to 1,32,379 tonnes, produced in the previous year. Production was lower by 7,066 tonnes, compared to the previous year. Reduction was mainly due to shuts availed in the Paper Machine during the year for upgradation works, poor market conditions and also on account of plant operations being shut down in the last week of March 2020 due to Covid-19 lockdown.

Unit : Erode also produced 35,083 tonnes of Wet Lap Pulp to augment the Pulp requirements of Unit : Tirunelveli.

Unit : Tirunelveli produced 72,234 tonnes of Paper during the year, as compared to 76,636 tonnes, produced in the previous year. The production was low

A.Celli Paper will supply three new E-WIND ® Tissue rewinders to Guangxi Sun Paper

The supply of A.Celli tissue and paper rewinders for the Shandong Sun Holdings Group continues with the sale of another 3 top of the range tissue rewinders for the Beihai plant, in the province of Guangxi, China.

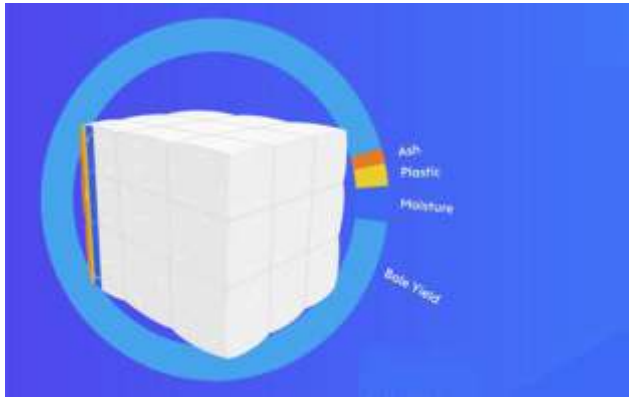
Shandong Sun Holdings Group, a leading cross-national papermaking group integrating forestry, pulp and papermaking, has signed the purchase contract for three E-WIND® Tissue Rewinders for the Beihai plant located in Guangxi province. The three machines that A.Celli Paper will provide to the Chinese group will have different configurations and characteristics from each other, namely:

Two T200S Shaftless rewinders with a design speed of 1100 mpm, one equipped with a calender and four unwinders and the other with three unwinders;

One T200 Tissue rewriter with a design speed of 1800 mpm, equipped with a calender and four unwinders

This agreement, which follows the numerous supplies of paper and tissue rewinders that have occurred over the years, is the latest confirmation of the trust that Shandong Sun Holdings Group places in A.Celli Paper’s solutions, know-how and competence.

- TissueMag



New Recovered Paper Quality Certification from merQbiz®

A new concept for inspecting and certifying the quality of recovered paper is proving to be a valuable tool for recyclers – giving their customers confidence in product quality and the suppliers themselves accurate data to negotiate true market pricing and successfully close transactions. The approach utilizes the BaleVision™ quality inspection and data analytics platform from merQbiz® combined with the new BaleFacts™ report that provides quality certification.

Multiple recyclers are now running trials using what merQbiz calls a “Confidence in Supply” (CIS) and “Confidence in Export” (CIE) solution. Similar to “car facts” reports used in the auto industry, a BaleFacts quality certification provides detailed data about RCP shipments based on a sample of inspected bales. The report documents the material inspection date, paper grade, shipment tonnage, bale identification numbers, content breakdown, a photo of each bale inspected, and average content

breakdown of the overall shipment.

BaleFacts provides mills with assurance in the quality of the material they are receiving and serves as a historical record of the transaction. Furthermore, BaleFacts data aggregated over time – including information about the supplier’s inbound materials and warehousing practices – helps sellers set pricing and leverage negotiations with buyers, as well as understand how sourcing, processing and storage practices are affecting their quality. Likewise, buyers are able to get a clear picture of supplier performance through historical

data. “BaleFacts is just one tool in our product suite aimed at giving both sellers and buyers greater confidence in supply,” said John Fox, merQbiz President and CEO. “We conduct BaleVision quality inspections where our technicians measure bale quality onsite at the seller’s location, or the seller can lease our inspection device to do their own quality checks. Our dedicated sales team can also connect sellers with buyers for their product in both domestic and international markets.”

CIS/CIE Trials Underway

Early trials of the CIS and CIE programs have been well received, according to Chris Parsons, Export Director at merQbiz. In one case, a large domestic seller that sells its product to Asia was seeking greater assurance that shipments would be accepted and usable on the import side. With merQbiz’s CIE program, the supplier now has objective quality data with a BaleFacts certification for each shipment.

“The report is shared via the cloud with the company’s representatives in Asia who can

walk into a mill and confirm buyer acceptance based on the quality before the shipment ever leaves the stateside port. That is powerful,” said Parsons. The quality certification program is applicable to small recyclers, as well as large ones. A family-owned materials recycling center (MRF) in the Northeast is using the CIE solution to certify exports to a buyer in the United Arab Emirates. Certification of an initial 400-ton shipment

provided product transparency, giving both seller and buyer confidence in the transaction. With a CIE program now officially in place, merQbiz will certify approximately 2,000 tons in September.

With its CIS program, merQbiz is helping to facilitate domestic transactions in addition to CIE for exports, according to Parsons. He describes a domestic mill that came to merQbiz looking to deepen its supplier base for high-quality newsprint grade. merQbiz connected the mill to a MRF that was a good fit in terms of location, grade and quality. After a successful initial trial of the CIS quality inspection and certification, the seller now has a new customer and is increasing its supply to the mill. The merQbiz CIS and CIE programs are powered by the company’s BaleVision inspection and analytics platform and its BaleFacts reports. These services are available globally for all buyers and sellers of recovered paper. As a cloud-based solution, users can quickly and easily access information via the web and share data with their trading partners securely anywhere in the world.

– The Pulp and Paper Times



Schaeffler India Launches OPTIME for the Paper and Cement Industry

Leading industrial and automotive supplier Schaeffler India has launched a new product called 'OPTIME'. It is an efficient and easy-to-use low-cost solution designed specifically for comprehensive condition monitoring of all process-critical assets across entire machine and equipments. Schaeffler OPTIME provides automated condition monitoring at a cost-effective but efficient manner making it very convenient for maintenance personnel and facility operators. The India launch of OPTIME is a part of the overall launch in the entire Asia Pacific region.

OPTIME is an easily scalable system that consists essentially of wireless, battery-powered vibration sensors, a gateway, and an app to visualize the resulting analysis data. The data captured by the sensors are analyzed using specially developed algorithms that draw on Schaeffler's technical expertise, which is developed and refined over many decades. OPTIME provides several weeks' early warning of damage to machine components such as electric motors, fans, and pumps. It also provides early warning of imbalances, misalignments, and knocking.

Introducing the product Mr. Harsha Kadam, CEO, Schaeffler India and President Industrial Business, said, "The impact of unplanned downtimes is far more damaging than revenues alone, and brings forth multiple challenges in any manufacturing or processing unit. For cost reasons, permanently installed continuous condition monitoring systems are typically used only for production machines that are directly process-critical. Therefore, in process and automation industries, it is not uncommon for up to 95 percent of all assets in a production facility to be either totally unmonitored or monitored only periodically by means of route-based, manual measurements. With Schaeffler OPTIME, however, comprehensive and automated condition monitoring is now a cost-effective proposition for maintenance personnel and facility operators."

He further added that, "With OPTIME, in-house maintenance crews and external service contractors receive specific recommendations on the remedial steps required, so they can easily plan their maintenance work, manpower requirements, and spare parts procurement in a timely and cost-efficient manner."

OPTIME can be installed and initial operation carried out without any prior condition monitoring expertise, and several hundred measuring points can easily be set up in the space of a single day. The vibration sensors are attached to the monitored assets by means of screws or adhesive, and are activated by the accompanying app, which connects to them via near-field

communication (NFC). All installed sensors communicate autonomously with each other and the gateway, thereby forming a dedicated

mesh network that ranks among the most reliable and energy-efficient types of IoT networks in use in industry today. The sensors in the mesh network transmit machine KPI data and raw vibration and temperature data via the gateway to the Schaeffler IoT Hub. The hub analyzes the data, and the results are displayed in the app, which supports a very wide range of end devices commonly used by maintenance teams and plant operators. Alternatively, the analysis results can be made available for integration into the customer's own IT environment via a REST API.

The app provided along with Schaeffler OPTIME presents trends in graph form and visualizes the severity of incidents using traffic light colours, alarm states, and other information. Assets can be grouped according to users' requirements, and their condition can be presented in a range of user group-specific views.

OPTIME can yield cost savings of around 50 percent compared with monthly offline measurements made using hand-held devices. It also provides better-quality monitoring than most wireless online CMS systems thanks to its complex, algorithm-based analytics. Moreover, OPTIME can be used for a multitude of assets for which condition monitoring was previously not commercially viable, which makes it the first solution capable of providing an overview of machine states that is truly comprehensive and encompasses all subsystems and auxiliary assets. This is important, because the automated condition monitoring of all assets is fundamental to the reliable prevention of unplanned machine and plant shutdowns.

– Paper Mart



Valmet receives a tissue line order from Wepa in the United Kingdom

Valmet will supply a complete tissue line, including full automation package, to WEPA's mill in Bridgend, the United Kingdom. The investment is a strategic step for the company to strengthen its presence in the United Kingdom.

The order is included in Valmet's orders received of the third quarter 2020. The value of the order will not be disclosed.

"Our willingness to invest in state-of-the-art technology is an important part of our future-oriented Group strategy and the United Kingdom remains an important growth market for us in Europe. We are convinced that with Valmet we have the right partner at our side to successfully implement this project," says Martin Krengel, CEO of the WEPA Group.

"We are excited to collaborate with WEPA and to be selected as partner for their expansion in the United Kingdom. We are convinced that the new Valmet Advantage DCT line will provide the best performance and tissue quality to meet WEPA's

high expectations for this project," says Jan Erikson, Vice President Sales, Tissue Mills business unit, Paper business line, Valmet.

The new tissue machine will have a width of 5.6 m, a design speed of 2,200 m/min and will increase WEPA's existing tissue production by approximately 65,000 tons per year. The raw material to be used in the tissue production will be recycled and virgin fiber. The new production line is optimized to save energy and to enhance the quality of the final product.

Valmet's scope of delivery will comprise a complete tissue production line featuring stock preparation systems and a Valmet Advantage DCT 200 HS tissue machine. The machine will be equipped with an OptiFlo headbox and a steel Yankee cylinder. It will also be featured with advantage tissue technology including ViscoNip press, an AirCap Heli hood and air system prepared for co-generation, WetDust dust system, sheet transfer system and a SoftReel L reel. The stock preparation line will consist of OptiSlush pulpers, OptiFiner conical refiners and OptiScreen machine screens.

Furthermore, the delivery will include an extensive Valmet automation package with Valmet DNA machine controls, process controls and Valmet IQ quality controls. Complete engineering, installation, training, start-up and commissioning are also included in the delivery.

– **PULPAPERnews.com**

Valmet Strengthens its Business by Acquiring PMP Group

Valmet has completed the acquisition of PMP Group in Poland following the agreement that was announced on September 11. PMP Group is a provider of technologies and services for the paper industry.

The acquired business becomes a part of

Valmet's Paper business line. PMP Group supplies process technologies and services for tissue, board and paper machines globally, focusing on small and medium-sized tissue machines and board and paper machine rebuilds. The net sales of the company were approximately EUR 70 million in the fiscal year 2019. The company employs about 650 people in Poland, China, USA and Italy.

PMP will be included in Valmet's financial reporting for the first time in Valmet's fourth quarter financial reporting 2020.

The acquisition was completed as planned and we are happy to welcome 650 new colleagues to Valmet. The combination of Valmet's current paper technology and services for wide and fast machines and rebuilds, together with PMP's product portfolio, competence and presence in strategic markets, will create new business opportunities. From now on we will work as one team with a wider product offering, to further strengthen our capabilities to serve paper, board and tissue producers globally – Jari Vähäpesola, Business Line President, Paper, Valmet.

Mirosław Pietraszek, former President PMP Group said: "I am satisfied that the closing process has been completed successfully. It is a great moment to celebrate an opening of a new chapter in our history. I am convinced that together with Valmet, we will create a professional, unique and strong team across the globe to bring our customers a more comprehensive service span and state-of-the-art solutions. As a team, we are ready for new challenges and excited to become a part of Valmet."

– **Paper Mart**



Bluetree takes control of specialist mask material

Bluetree Group has taken delivery of two specialist machines that will allow the business to make its own 'meltblown' material for surgical face masks in-house. When the business launched its new mask-making venture over the summer, there was only one other manufacturer of the special material in the UK, with the government buying up all of that supply. With the two new meltblown machines Bluetree said it had become the first manufacturer of the material in England. The firm said that the Covid-19 pandemic had resulted in meltblown becoming "one of the scarcest materials in the world", with some countries banning exports. "Before the pandemic, the average cost of meltblown was £2,000 per tonne, this soared to £150,000 at the peak of the pandemic," Bluetree stated. The specialist machinery was sourced from China, and installed by a UK engineering business. The meltblown material is used for the middle layer in the Type IIR surgical masks being made at Bluetree's new facility. Bluetree said it was in the process of securing a UK supply chain for the polypropylene raw material used to make the substrate. It has the capacity to make 100 tonnes of meltblown material a month. Around 12 of the hundreds of new jobs being created at the facility will involve operating the meltblown machines.

Meltblown material is also used for gowns and respirators.

Wath upon Dearne-based Bluetree Group has already won a huge £64.1m contract to supply the NHS with 352m masks, and is also supplying the Daily Mail's charity PPE initiative, Mail Force.

The firm has the potential capacity to make 1.7m masks a day. As well as large supply contracts, it offers its Mask Box subscription scheme to businesses such as dentists and vets, and other printers who need masks for their workforces.

Bluetree said its initial £1.8m investment had grown to a total of £12m for the new venture.

– *Printweek*



EPRC does not expect another covid-19 related recovered paper shortage

This year has been characterised by extreme price volatility on the recovered paper (RCP) market. Experts speaking at online events organised by BIR and the EPRC believe that the market will stabilise again in 2021. In the long term, however, new outlets for European RCP have to be found.

Last spring, paper mills in Europe experienced a sudden price surge never seen before for their raw material, with recovered paper prices sometimes jumping by up to 100 € in just a few weeks, depending on the country.

It was a short-lived upswing, caused mainly by the covid-19 related lockdowns, which had curbed production and waste arisings. In some countries, collection activity was also reduced. This created a shortage in recovered paper supply that was responsible for the price jumps.

In its webinar on 9 October on the challenges facing the industry, the European Paper Recycling Council (EPRC) said it did not expect this situation to recur, even if new lockdown measures should be implemented. "We do not believe we will have such problems again," EPRC secretary Ulrich Leberle said, referring to a possible recovered paper shortage. Collection centres had not been prepared at the time, the situation being a completely new phenomenon, and operators had preferred to interrupt operations rather than taking the risk of infections, he explained. Panel experts at the online World Recycling Convention organised by the Bureau of International Recycling (BIR) last week also reported that they expected the market to

stabilise again in 2021 after the turmoil caused by the pandemic this year.

China used to buy 65 per cent of European recovered paper

In the long run, some market experts are rather worried about an oversupply on the European recovered paper markets. China has drastically reduced its recovered paper imports over the last years and will stop them completely by the year's end. The EPRC noted that while the country made up for 65 per cent of all European recovered paper exports in the first half of 2017, this year the share was only 5 per cent.

– Euwid Pulp & Paper

Kellogg's trials Coco Pops boxes designed for the blind

Kellogg's has launched limited-edition World Sight Day Coco Pops cereal boxes in the UK. The boxes use NaviLens technology to allow a smartphone to detect and play back information, and also feature braille embossing, include on-pack information in a larger font size, according to information released by the Royal National Institute of Blind People (RNIB).

The boxes were available in almost 60 Co-op stores across the UK from 8 October. They use pioneering technology called NaviLens to allow a smartphone to detect and playback labeling and allergen information to shoppers. This trial comes after research from RNIB revealed that nine in 10 blind and partially sighted people feel that information on food

packaging is difficult or impossible to read. If successful, Kellogg's hopes to adapt more of its cereal boxes to include this technology.

Marc Powell, strategic accessibility lead at RNIB, says, "This trial with Kellogg's has raised the bar in inclusive and accessible packaging design allowing people with low or no vision to locate a product on the shelf and access all information about it completely independently for the very first time."

"Important information on packaging can often be in very small print, making it difficult for blind and partially sighted people to read. This can make shopping a real challenge, especially for those with specific dietary requirements as they can't see the all-important nutritional information," he added.

This new technology can be used both in-store and in the home. It allows smartphones to pick up an on-pack code from up to three meters distance when a blind or partially sighted shopper points their device in the direction of the cereal box. This then alerts the phone and the shopper can choose to have the ingredients, allergen and recycling information read aloud to them as well as reading it on their device using accessibility tools.

Chris Silcock, Kellogg's managing director, explains, "Over two million people in the UK live with sight loss and are unable to simply read the information on our cereal boxes. That's why we partnered with RNIB to trial special boxes of Coco Pops with NaviLens technology – a first for food packaging. If the trial is a success, we would hope that it could appear on more of our cereal boxes for visually impaired shoppers to access."

– The Packman

Bacardi portfolio set for transition to 100% biodegradable bottles

Bacardi has announced a new partnership with Danimer Scientific to replace the single-use plastic bottles across its entire product portfolio with 100% biodegradable, plant-based alternatives – a move that is projected to replace 80 million plastic bottles per year.

This move has been made possible by Bacardi's collaboration with Danimer Scientific, a developer and manufacturer of biodegradable products. Petroleum-based plastics used by Bacardi today will be replaced by Danimer's Nodax PHA, a biopolymer that is derived from the natural oils of plant seeds such as palm, canola, and soy.

According to Bacardi, the new spirits bottle made from Nodax PHA will biodegrade in a wide range of environments, including compost, soil, freshwater, and seawater; and after 18 months, will disappear without leaving behind harmful microplastics.

BACARDÍ rum will be the first spirit to appear in the new bottle, before the plant-based material is rolled out to replace single-use plastic across the entire Bacardi supply chain and the company's 200 brands and labels including BOMBAY SAPPHIRE gin, GREY GOOSE vodka, PATRÓN tequila, MARTINI vermouth, and DEWAR'S Scotch whisky.

Jean-Marc Lambert, senior vice president of global operations at Bacardi, said: "When we set ourselves the goal of being 100% plastic-free by 2030, we knew that it would take ground-breaking advances in packaging design to make it achievable, and that's exactly what's happening through our partnership with Danimer."

With the help of the new material, the Bacardi Packaging Development team also hopes to crack one of the beverage industry's longest-standing plastic problems – the plastic lining of bottle closures. "It may sound small," says Lambert, "but add that up across every bottle produced globally and we're talking many tons of plastic every day.

"Once we've fixed the problem, we'll be open-sourcing the solution for the entire industry to use. This isn't about competitive advantage, it's about doing the right thing for the planet."

Today's announcement by Bacardi represents a major step towards the company achieving its goal of being 100% plastic-free in the next 10 years. As well as launching the new biopolymer bottle in 2023, the company has also committed to removing all its non-essential, single-use plastic, including all plastic gift box materials and plastic point-of-sale materials, in the next three years.

Nodax PHA was verified as a biodegradable alternative to petrochemical plastics by the University of Georgia (UGA) and the UGA New Materials Institute in a 2018 study. Danimer Scientific currently uses the material for a wide range of applications, including

thermoformed trays, drinking straws, flexible and multi-layer film packaging, coatings, disposable cutlery, and more.

– Packaging Europe





Siegwerk expands development activities of Cradle to Cradle certified ink systems

Siegwerk, one of the leading global providers of printing inks for packaging applications and labels, further expands its range of sustainable ink solutions according to the Cradle to Cradle (C2C) principle focusing especially on solutions for flexible packaging. Based on its expertise in packaging circularity and its broad solution baseline of sustainable inks and varnishes including C2C-certified solutions, the company is increasingly driving the improvement of packaging recyclability by developing pioneering ink systems meeting the highest environmental standards.

“The continuously rising awareness in respect of sustainable packaging has a strong impact on a consumer’s choice of brand.” This further increases the pressure on brand owners of fast moving consumer goods to innovate their packaging structures and materials in order to maintain their differentiation advantages not only at the Point of Sale and usage but also post-

consumption, explains Dr. Stefan Haep, head of technology and innovation brand owner collaboration at Siegwerk.

“C2C presents a well-accepted and scientifically proven method to validate the characteristics of sustainable materials, products and systems by putting a major role on the human and ecological health impact of the chemical substances used as constituents. With C2C, brand owners have the opportunity to demonstrate their innovation efforts to deliver their sustainability pledges.”

Developing ink solutions according to the C2C material health principle means that the design is based on materials that are inert to the environment and safe for the human health and enable the use in a closed biological loop system. Hereby, safe, and sustainable packaging components like printing inks are essentially important for the certification of the complete packaging. A C2C Material Health Gold certification guarantees the absence of any organohalogen constituents in the formulation (especially chlorine) and of any substances which have highly problematic properties in terms of at least one or even more of the 24 toxicological endpoints used by the Cradle to Cradle Products Innovation Institute (like carcinogenic, mutagenic or reprotoxic effects).

“Specifically, the holistic evaluation approach of the Cradle to Cradle principle including all individual packaging components makes it challenging for packaging developers to validate their packaging and gain the full C2C

certification of the final product”, adds Stefan Haep. “That’s why finding the right partner is the key.” Users of Cradle to Cradle Material Health Gold certified inks are therefore enabled to claim using inks which are according to the current knowledge absolutely inert and thus safe for recycling processes and well fitting into the current Circular Economy approach.

In 2017, Siegwerk was the first ink manufacturer to be awarded “Cradle to Cradle Material Health Certification Gold”. With its Sicura Litho Nutri Eco, the company had developed a unique low migration UV offset ink range to support the launch of Werner & Mertz’s recyclable detergent bottle design meeting the highest Cradle to Cradle certification criteria. Since then, Siegwerk progressed to certify more ink solutions in particular for flexible packaging. Currently, Siegwerk offers a solid set of C2C solutions industrially certified for Material Health which are suitable for different packaging types and printing technologies for both food and non-food applications. “Just recently we gained another ‘Cradle to Cradle Material Health Certification Gold’ for a solvent-based ink system specifically for the flexographic printing of polyolefinic monomaterials that are e.g. used for pouches, wrappers and similar,” says Dr. Haep. With this latest milestone development Siegwerk once again underlined its pioneering role in enabling packaging circularity by offering innovative ink solutions.

- The Packman

NEW TECHNOLOGIES

Trident Group



“To start this November on an exciting note, Trident Group is all set to host their First-Ever Virtual Business Associates Meet. A one-of-its-kind experience for all shareholders, Trident's Business Associates Meets have been very popular in the past owing to interesting discussions and offers. This year due to the COVID-19 scenario, the

show has been scheduled virtually where Trident will launch their new copier brand 'ENVIRO.' Trident Group has been a pioneer of manufacturing environment friendly products. Enviro is another addition to their existing stellar range of copier paper that has been trusted by customers across India. With this meet, Trident is also unveiling amazing schemes for their business associates. In fact, there is also an interesting line-up of speakers at the show. Don't forget to log on and know more in detail”.

Register now at below link and win exciting rewards.

https://zoom.us/webinar/register/WN_aPBY9wmUTQa4Ykbb-9P2Fw

Trident Limited offers a number of products in the office products category such as laser printer paper, laser paper, inkjet printer paper, bond paper, presentation paper, multipurpose paper. The oft-heard cliché you hear at office when you print a paper, “you are killing a trees,” has a degree of truth to it, but, Trident's Paper is majorly wheat straw based with some inclusion of supplementary wood waste (from plywood industry) and chemicals. The raw material is all sourced from locations within India and transported to Dhaura, Punjab to be processed as pulp for making paper. These are then distributed to customers, nearly 80% of which are within India and around 20% is exported to countries such as UAE, Ethiopia, Nepal, Sri Lanka, etc.

Trident has come up with a new product in the economy segment –

ENVIRO Copier 67 GSM

Key Features

- Premium Multipurpose office paper for day to day application and job works
- heat straw based Copier Paper
- 88% Brightness Paper with excellent optical properties – No fade out or reversion
- Hi-strength, Hi-bulk paper with excellent surface properties-long lasting
- Compatible with all types of photocopying systems and hassle free both side copying
- Preferred by most jobbers for economical quality jobs and commercial usage
- End Users
- Suitable for jobs at shops, offices and home printers with any speed and configurations
- Preferred by most jobbers for economical quality jobs and commercial usage



**FOR FREEDOM TO LIVE AN
ENVIRONMENT FRIENDLY LIFE**

N.K.R. Engineers Pvt Ltd

We upgrade the machine design & increase efficiency of the machine with low power consumption.



N.K.R. ENGINEERS PVT. LTD.

Mfg. : Paper Mill Machinery
www.nkrengineer.com

DRYER SECTION



Bell Multikraft Pvt. Ltd.

We are pleased to offer an array of packaging grades providing Industrial and retail corrugated packaging solutions for any customer, regardless of size and demand. Product Highlight of Bell Multikraft Pvt. Ltd. Is mentioned below:

Bell-Kraft Liner - Bell is one of the finest suppliers of Kraft Liner Board in India. The grades provide optimum performance when combined with corrugated medium in the construction of corrugated board. The board could be manufactured using 100% virgin fibre or include recycled fibre content. Features:

- Available in substance 140 to 250 gsm sq/m²
- Excellent strength, performance and printability with High Burst Values.
- Flexible selection of grades to meet performance with significant box weight reduction.
- Multiple forestry and fibre sourcing certifications.

End Uses

- Corrugated Cartons
- Specialized Packaging

Bell-Test Liner - Available in substance ranging from 140 upto 300 GSM / SQ/ M². Bell-Test Liner made from higher content of recycled fibre content, it has a good compression value and unique surface shade. It is the ultimate choice by corrugators and is highly recommended for the outer and intermediate layers of the container board.

Features:

- This grade could be manufactured in both Sized as well as Unsized quality.
- High Compression strength
- Suitable for both Top liner as well as intermediate plies of container board.

End Uses

- Corrugated Cartons with high RCT values

Bell-High Performance Liner (HP)

Bell-High Performance Liner grade provide optimum performance when combined with corrugated medium in making of corrugated boxes. This HP Liner is manufactured with 100% virgin fibre or mix of virgin fibre and recycled fibre depending on the requirements of the industry.

Features:

- This grade could be manufactured in both Sized as well as Unsized quality.
- High Compression strength
- Suitable for both Top liner as well as intermediate plies of container board.
- Typical use
- Corrugation

Fluting Medium

Bell-Fluting Paper is the middle liner kraft of corrugated board providing a cushioning support for the primary product which can be used individually as a type of protective packaging paper.

We offer fluting in 140 to 300 GSM Range
Typical application

- Middle layers for making of corrugation boxes.
- End Uses
- Corrugation and packing



Papyrus 360 Netique Infotech (P) Ltd.

We are specialized in providing services to Process optimization, Automation, Product Development and Marketing & Commercial.

Optrim 2.0 – Digital Revolution In Deckle Optimisation

Any paper manufacture, the deckle matching is one of the key process with many challenges.

We are

- Market Leader in Deckle matching Software for the last two decades.
- Industry expert in providing Business Solutions for Paper Industry.
- Core Panel contains Paper Industry Champions and IT Experts.
- Our products known for its stability and performance.
- Our customers includes leading Mills in India and Abroad.
- What Is Optrim 360 ?
- Papyrus Optrim 2.0 focus on Deckle Matching as its core
- Seamless integration with your Order Management System
- Easy to Use – No prior knowledge of Deckle Matching required
- Simplified Design reduces your learning curve
- Complete control on variables which impact your Deckle Matching.
- Developed using 40 Years of Domain Knowledge in Paper Industry.
- Developed using Cutting Edge Technology with Speed and Accuracy.
- Features
- Handles all possible Deckle Sizes and unlimited number of Order sizes.
- Support for Multiple Paper Machines with different parameters.

- Flexibility in setting Maximum number of circular knives in Winder.
- Positive and Negative tolerance on Sizes and Quantity and trim-loss.
- Handles combination of Reels, Sheets orders.
- Support both Simplex and Duplex Cutters.
- Flexibility to set Weight per combination and number of sets.
- Great Control over how the combination should be generated.
- Support for adding Standard Sizes for maximum optimization.
- Flexible Diameter Settings.
- Improved order processing. Support for Automation and Manual entries.
- Improved Deckle processing with lightning speed matching algorithm.
- Interactive Analytics and Reports for Upper Management and shop-floor users.
- Flexibility in Integrating with your existing SAP or other order processing system.
- Digital dashboard for everyday critical status updates.
- Business insights for upper management about Orders, Production and Machine Efficiency.



Enviro Chemical Crafts Pvt. Ltd.

Magneto Electric System

- No usage of chemicals, hence only TSS and Iron will be the sludge
- Hardness decreases
- BOD and COD gets removed above 65%
- Low operating cost
- 90% color removed
- Easy operation and maintenance
- Low manpower required
- Easy to operate and maintain
- Consistent result is achieved due to complete automation

Features:

- Customized & Durable material for high usage life time.
- e Auto polarité enabled
- e Auto acid cleaning system
- a Uniquely designed electrodes arrangement and air distribution system thus ensuring less sludge deposit between electrodes.
- PLC based full automation
- e Vast knowledge
- Customized design

Eco Biological System: The biological method of waste water treatment is performed by a variable and mixed community of microorganisms in an aerobic aquatic environment. Microorganisms already present in wastewater feed on a complex substances in the wastewater, converting them in to simple substances, helping to improve the treatment

Features:

- Online DO controller managed through PLC helps to maintain constant DO level at any point of time.
- e Irrespective of invariable BOD load,

system design 1 effluent inlet tow and will be able to achieve consistent BOD & COD reduction.

- e Online pH Indicator (High accuracy pH sensor) helps to identify level of pH thus ensuring bacteria decay is minimized. Range of Diffusers (Disk, Tubular and plate) with variety of membrane materials (EPDM, Silica, PTFE-EPDM, CERAMIC) for both coarse & fine bubble formation.
- Lesser retention time as compared to conventional systems.
- e Consumes less energy.
- Support both attached as well as suspended growth process

Sludge Separation System: HRSC (HIGH RATE SOLIDS CONTENT) CLARIFIER

The high rate solids content clarifier is used mostly wherein the incoming load condition vary. Much wider range of water qualities can be handled in the HRSC Clarifier. The principle is based on mixing existing floc with the incoming effluent to create a dense floc, which can be easily settled down. The flocculants/ coagulants and large quantities of recirculating sludge's are thoroughly mixed and retained in intimate contact for a prolonged period of time in the draft tube and cone sections of the solid clarifier.

Features:

- HRSC clarifier is constructed with MS, FRP, SS, PP, In RCC material ensures high usage lifetime.
- e Its unique design occupies only less area but provides more surface area, thus better efficiency. Designed in such a way that reactive gases are completely removed, turbidity is reduced and achieves maximum separation of sludge.

Belt Filter Press: Double Acting Tensioning for Separate both belt

Packcell:

We have come out with our latest product Packcell, so as to give the water clarity upto 20 ppm. This equipment has been successfully commissioned in various paper industries in India.

Packcell has the following Advantage:

- Higher Clarification and reduction of Filterable suspended solids to achieve clarity between 20-50ppm on paper machine back water.
- Fiber and filter recovery is achieved separately in the same equipment and can be reused in the process.
- Fiber quality is better due to separation of filters and settleable foreign materials.
- Sludge Consistency can be maintained from 2% to 4%.
- Packwell replaces primary and secondary clarifiers in the effluent treatment plant saving huge civil construction costs and space with better quality of effluent with 35% reduction of BOD & COD due to dissolved air flotation system and less retention time (30 minutes) compared to conventional clarifier which is 4-5.
- Achievement on Brown Black Water of ETP final discharge color reduction to 80 to 85% achieved in Bindal Papers Mills Ltd.

Packcell is applicable for:

- Machine Back Water
- Clarification of Effluent in ETP
- All Clarified water can be reused in process

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



INDUSTRY SPEAK



Satish Singh

Managing Director

M/S. Nnoweta Performance Chemicals Pvt. Ltd.

We are praying for everyone to be safe and healthy under Covid 19 pandemic, with all the efforts from the Government trying hard to control the situation on to ease out in due course of time. Believing that the collective efforts by us and all are going to help in resolving the disease spread once for all.

Good news is that under the current circumstances, NNOWETA resumed its operations with limited resources and manpower ensuring our standard operating procedures in place as per the Government guidelines to put-forth the much more precautions as priority on SAFETY MEASURES in line as directed by Government.

It can be said that only the strongest & most resilient businesses will grow. Sustainability, innovation and supporting digitization are key items of Paper Industry Customers which are looking for to become more competitive

in the future. It is a must to educate and create awareness now amongst industry professionals regarding the underlying cause of their very own power quality issues. As travelling & services restricted, we are trying & putting efforts to appoint local agencies to keep in touch with our clients regularly. Hoping and expecting in couple of month things will be back to normal.



Samir Patil

President

Clyde Industries India Private Limited

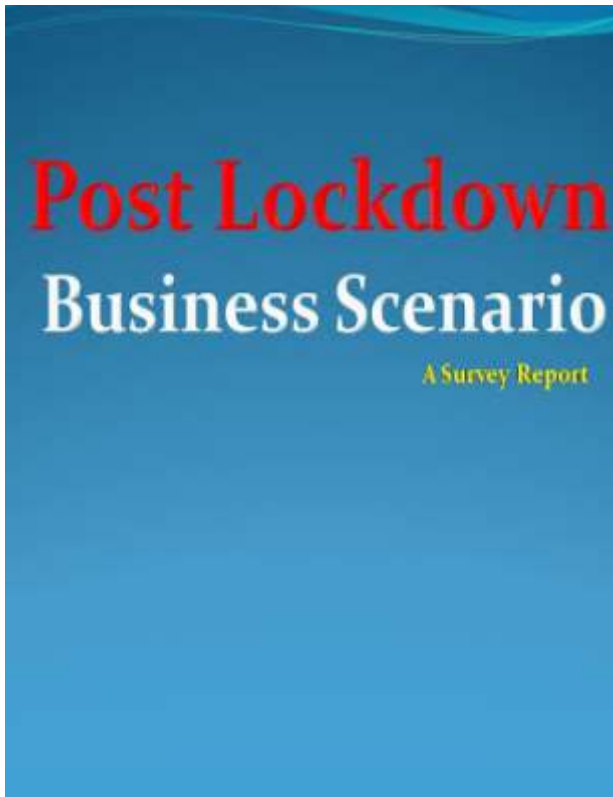
Clyde Industries COVID Support- Safety and Reliability Inspections

In these unusual times, planned outages have been delayed and rescheduled for months. As a result, every week that goes by, the safety risk and potential for breakages increases. It's only a matter of time till something goes wrong. Fast action now can avoid costly problems later.

Planned outages have been delayed, shortened, and rescheduled for months. The Clyde Industries team can handle long overdue critical Sootblower and Port Rodder maintenance before safety issues or shutdowns happen outside of your outage. Schedule your safety and reliability inspection today.



MEDIA SPEAK



PHDCCI Quick Survey on Post Lockdown Business Scenario

The growing severity of the impact caused by the widespread pandemic COVID-19, on our economy, its people and the Nation as a whole is a matter of deep concern. In India, more than 1.6 lakh people are impacted due to COVID, of which around 4500 people have died and around 68,000 people have recovered so far. The Government has been undertaking proactive and fast track

measures to safeguard its people, economy, trade and industry against the wild tide of pandemic COVID-19.

The Government's decision to exit the lockdown in a graded manner by giving equal importance to lives and livelihood of Indian citizens is appreciable. This will go a long way in uplifting the sentiments of the stricken Indian Industry, helping the daily wagers, poor and the needy earn their livelihood and also revive India's economic growth trajectory.

However, COVID-19 induced lockdown in the country has created a difficult time for the industry. Most businesses are facing challenges of sustaining their business activities and keeping their financial wheels turning during the lockdown period due to less or almost no business activities, weak demand scenario and low consumer confidence.

At this backdrop, to assess the impact of pandemic COVID-19 on Indian businesses and their preparedness to face post lockdown issues and challenges, PHD Chamber of Commerce and Industry has conducted a Pan India Survey. A total of 2770 responses were received from diverse sectors, scales of operation and regional locations in the country. Responses on the survey received comprise of 9% responses from startups, 14% from micro-enterprises, 24% from small enterprises, 33% from medium enterprises and 20% from large enterprises.

The Survey responses have been broadly received from businesses involved in 35 major sectors across pan India, clubbed into

4 broad categories, such as manufacturing, services, construction and agriculture. Responses received comprise of 40% from manufacturing/ industry, 32% from services, 11% from agriculture, 7% from construction and the remaining 10% from other categories.

According to the survey findings, majority of the respondents are of the view that maintaining price-cost margins/profitability, payment of wages/salaries to workers/ Employees, availability of working capital, repayment of loans/payment of EMIs, costs of capital, availability of finances/loans, costs of social distancing, weakening of demand, compliances of labour laws and retaining of the full workforce will be the challenges for businesses in the post lockdown scenario.

Further, majority of the respondents opined that increasing the sales volume, enhancing the competitiveness of business, cut in the costs of business operations, enhancing business operations in the domestic market, focus on innovation, research and development, enhancing the price-cost margin, reducing the workforce in business operations, increasing the scale of business operations, diversify business operations and enhancing business operations in the international market will be the plans of the businesses in the post lockdown scenario.

At this juncture, the announcement of a bold economic relief package of Rs 20 lakh crores for the year 2020, totalling to 10% of India's GDP is highly laudable to mitigate the daunting impact of Pandemic COVID-19 on the economy, trade and Industry through

various relief measures and benefits to India's trade and industry. This will not only build confidence in the trade and industry but also refuel the economic growth trajectory and maintain GDP growth at around 4% in the current financial year. This would enable the country to witness a V-shaped recovery in the economic growth trajectory rather than a U-shaped recovery. It is suggested that the cost of doing business, including the cost of capital, cost of compliances, cost of logistics, cost of land and availability of land, cost of power/energy and cost of labor, should be reduced in the country to attract foreign investors and provide a boost to the domestic businesses. Land reforms such as an increase in the lease period and the creation of land banks for the use of industry should be focused upon. The state should have a ready land bank with developed infrastructure so that the project can be started immediately. One window service should be set up to give clearance for all the permissions in 7 days to ensure faster and efficient action and decision-making. India should build domestic capacities to mitigate the impact on import demand and materialize an opportunity to increase its presence in global exports. India should target the companies from US, Japan, EU, that desirous of shifting their base and promote Make in India. This will help the country to become the manufacturing hub of global supply chains and a global export powerhouse in the coming times. Going ahead, the focus should be on enhancing consumption expenditure,

ensuring the provision of hassle-free disbursements of loans vis-à-vis enhanced liquidity to the industry, reducing the lending rate by all the banks, supporting MSMEs and Startups through value chains enhancement, increasing working capital requirement of the businesses, among others. These reform measures would go a long way to help trade and industry to resume business activity in this extremely difficult time.

Post Lockdown Challenges for Businesses

According to the survey findings, majority of the respondents are of view that maintaining price-cost margins/profitability (61%), payment of wages/ salaries to workers/ Employees (60%), availability of working capital (58%), repayment of loans/payment of EMIs (53%), costs of capital (52%), availability of finances/loans (51%), costs of social distancing (51%), weakening of demand (51%), compliances of labour laws (50%) and retaining of the full workforce (49%) will be the challenges for businesses in the post lockdown scenario.

1. Maintaining adequate price-cost margins/ profitability

Due to COVID induced lockdown, on one hand, the sales volumes have declined drastically because of the decline in the demand, while on the other hand the prices of raw material have increased or are likely to increase due to supply disruptions. Further, after the lockdown period, businesses will be requiring adequate time to get back to their normalized operations, clear their inventories and generate profit. At this background, the majority of the respondents (61%) have said that maintenance of

adequate price-cost margins/ profitability will be highly challenging in the post lockdown scenario.

2. Payment of wages/ salaries to workers/ employees

COVID induced lockdown have stranded business operations, temporarily closed industries & factories with no or low revenue churning. This has resulted in inability of companies to pay full or even partial wages/salaries to their worker/employees. In addition, due to temporary shut-down of the manufacturing facilities, the fixed costs like employee wages & salary, are resulting in spiking the costs of businesses. Majority of the respondents have opined that even after lockdown period, they will be requiring adequate time to get back to their normalized operations and revenue levels. With this backdrop, 60% of respondents have responded that payment of wages/ salaries to workers/ employees will be highly challenging in post lockdown scenario.

3. Availability of working capital

Majority of the respondents (58%) has opined that the availability of working capital will be highly challenging in the post lockdown business scenario. The closure of factories, malls, markets, small businesses, among others have adversely impacted their overall working capital cycle. As there is a drastic fall in the business activities vis-a-vis lower domestic and international sales, the working capital of the businesses have been disrupted. Further, as MSMEs completely depend on the working capital for meeting their short-term expenses, including purchasing raw materials, payment of

salaries, meeting overhead expense, among others, the working capital disruption due to COVID has become a major challenge for MSMEs.

4. Repayment of loans/ payment of EMIs

Majority of the respondents (53%) have opined that repayment of loans/ payment of EMIs will be highly challenging in post lockdown scenario. The stranded business operations, temporarily closed industries & factories, no or low revenue churning and the inability of companies to pay full wages/salaries during the lockdown period has severely impacted the ability of businesses and individuals to repay their loans and/ or pay their monthly EMIs. It is very important to companies/business which intend to expand/diversify their operations and fund their business, cost of capital will be a major challenge for such businesses. Further, the cost of capital is relatively high in India and this impacts the competitiveness of manufacturers and exporters of India in the international market. With this backdrop, 52% of respondents have responded that cost of capital will be highly challenging in a post lockdown scenario.

6. Availability of finances/ loans

COVID situation has caused a severe liquidity problem in the economy. This may create a likely situation of non-availability of adequate finances/loans in post lockdown scenario. Further, a significant portion of the population and businesses in India have no access to formal finance. Sub-optimal and cash-driven, a majority of Indian MSMEs will be facing the issue of availability of finances

or loans in the coming times. Therefore, the majority of the responding business firms (51%) are of view that the availability of finances/ loans will be highly challenging in post lockdown scenario.

7. Costs of social distancing

The outbreak of COVID in the world has forced the countries to stress upon the essential norm of social distancing. Adoption of this norm in daily activities will cause businesses to change their way of working, make huge changes in their office premises and provide a sanitized working environment to their employees. Therefore, majority of the respondents (51%) are of the view that the cost of social distancing will be highly challenging for the businesses in a post lockdown scenario.

8. Weakening of demand

Even before the onset of this pandemic, the global economy was confronting turbulence because of disruptions in trade flows and attenuated growth. The situation has now been aggravated by the demand shock that COVID-19 has inflicted globally. Complete lockdown in India has resulted in the stranded business operations, no or low revenue generation, hit on daily wages and pay cuts across companies. This has severely impact the overall consumption trend and consumer spending in India, thus weakening the overall demand in the economy. Disruptions in business cycles are bound to impact the demand for commercial as well as residential spaces in the real estate market. Therefore, most of the respondents (51%) have responded that this will have a high challenging on them in

post lockdown scenario.

9. Compliances of labour laws

Labour laws in India needs to be made more effective, flexible and in sync with emerging economic and industrial scenario. Most of the respondents have responded that given the disruptions caused by COVID and resultant lock-down, following the relatively rigid provisions in different labour laws prevalent in the Indian economy will become difficult and hamper the revival of the industry. Thus, 50% of respondents opined that compliances of labour laws will be highly challenging in a post lockdown scenario.

10. Retaining of the full workforce

Due to lockdown, the majority of the factories/ businesses/companies are shut with no or little revenue, all export orders are getting cancelled and units unable to repay loans. Majority of the respondents have responded that this will make them less likely to retain of the full workforce. Further, most of the retrenchment is likely to take place in labour-intensive sectors. Thus, 49% of respondents opined that retention of the full workforce will be highly challenging in post lockdown scenario.

operations (50%), increasing the scale of business operations (44%), diversify business operations (43%) and enhancing business operations in the international market (36%) will be the plans of the businesses in the post lockdown scenario.

– The Pulp and Paper Times



US boxboard production down 6 per cent in September

U.S. boxboard production in September 2020 decreased 6% compared to September 2019. It was down 3% when compared to the same nine months of 2019, as the American Forest & Paper Association reported.

The boxboard operating rate was 88.3%, down 3.6 points from September 2019 and down 0.8 points year-to-date.

Solid bleached boxboard production in September decreased 11% compared to September 2019. It was down 6% when compared to the same nine months of 2019.

Recycled boxboard production in September 2020 decreased 1% compared to September 2019. It was down 2% when compared to the same nine months of 2019.

Unbleached kraft & gypsum production in September 2020 decreased 4% compared to September 2019. It was down 1% when compared to the same nine months of 2019.

The American Forest & Paper Association serves to advance a sustainable U.S. pulp, paper, packaging, tissue and wood products manufacturing industry through fact-based public policy and marketplace advocacy. – PULPAPERnews.com

- The Packman

Global Cigarette Paper Market Year: 2020-2026 Forecasts and its Details Analysis with Regional Overview

Global Cigarette Paper Market Report describes the basic elements of the industry and market stats, the recent advances in technology, business plans, policies, possibilities for development and risks to the sector are being described. The two key segments of the report, namely market revenue in (USD Million) and market size (k MT) are presented in this report. The Scope of Cigarette Paper industry, market concentration and presence across various region are described in detail.

The prominent Cigarette Paper industry players are covered in the next section, their business profiles, product information, and market size. Also, the SWOT analysis of these players, business plans & strategies are covered. It covers the product definition, classification, type and price structures.

In this report Cigarette Paper manufacturing value and growth rate from 2015-2019 will be provided at regional level. The nitty gritty evaluation of segments and sub-segments of emerging industries are clarified. It covers Cigarette Paper industry plans & policies, financial status, cost structures and analyzes of the value chain. The Cigarette Paper competitive perspective of the countryside, the production base, the evaluation of the production method and the upstream raw materials are assessed.

The gross margin, consumption pattern, growth rate of Cigarette Paper is studied precisely. The top industry players are covered on a regional level and country level with the analysis of their revenue share from 2015-2019. Furthermore, forecast Cigarette Paper industry status is determined by analysis of expected market share, volume, value and development rate. The forecast Cigarette Paper industry view is presented from 2020-2026.

- Prnews Leader





Global Offset Paper Market to Record Significant Revenue Growth During The Forecast Period 2020–2027

Global Offset Paper Market Report describes the basic elements of the industry and market stats, the recent advances in technology, business plans, policies, possibilities for development and risks to the sector are being described. The two key segments of the report, namely market revenue in (USD Million) and market size (k MT) are presented in this report. The Scope

of Offset Paper industry, market concentration and presence across various region are described in detail.

The prominent Offset Paper industry players are covered in the next section, their business profiles, product information, and market size. Also, the SWOT analysis of these players, business plans & strategies are covered. It covers the product definition, classification, type and price structures.

In this report Offset Paper manufacturing value and growth rate from 2015-2019 will be provided at regional level. The nitty gritty evaluation of segments and sub-segments of emerging industries are clarified. It covers Offset Paper industry plans & policies, financial status, cost structures and analyzes of the value chain. The Offset Paper competitive perspective of the countryside, the production base, the evaluation of the production method and the upstream raw materials are assessed.

The gross margin, consumption pattern, growth rate of Offset Paper is studied precisely. The top industry players are covered on a regional level and country level with the analysis of their revenue share from 2015-2019. Furthermore, forecast Offset Paper industry status is determined by analysis of expected market share, volume, value and development rate. The forecast Offset Paper industry view is presented from 2020-2026.

– *Prnews Leader*



BUSINESS FESTIVAL OF PAPER INDUSTRY



a Hyve event

6 - 9 December 2021

Pragati Maidan, New Delhi 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



08-10 April 2021

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 IARPMA
- 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



Hyve India Private Limited

(CIN. U92490DL2004PTC124343)

Innov8 , 2nd Floor, 44, Regal Building

(Above Madame Tussauds Wax Museum)

Outer Circle, Connaught Place, New Delhi-110001, INDIA

Email: ed.india@hyve.group

Website: india.hyve.group, www.hyve.group

SOME LEADING COMPANIES AT THE EVENT



Nnoweta Performance Chemicals Pvt. Ltd.



"Nnoweta is the fastest growing company located at Nagpur city (known as orange city which is situated quite at

the heart of India, is famous for Zero mile the geographical centre of India, Also known as the second capital of Maharashtra.) with leading supplier and manufacturer of paper chemicals, corrugation & packaging, textiles, paint & adhesives and energy saving fuel additives. Our inventive solutions provide top quality chemicals which increase in productivity and lowers cost of production. Keeping side by side enhancement of machine proficiency which constantly empowers paper performance".

N.K.R. Engineers Pvt Ltd



N.K.Group (N.K.Enterprise & N.K.R.Engineers Pvt. Ltd.) was founded by engineers & technicians in the year 1997.

The founder members had a vast experience of working in reputed large & medium paper mills and paper mills machinery manufacturers at key positions.

In order to provide a strong backbone to already growing group, today the group is well equipped to face technical need and is destined to be a dominant name in the industry. He has a strong technical background and is looking after technical activities viz production, designing and inspection. His huge experience of more than 27 years in the industry is an asset to our organization.

We manufacture machinery as per high quality standards and we don't compromise on material used and standard manufacturing process. This results in best – finished paper quality and high production rate with minimum maintenance and production cost.

Process Facilities

- o Hydraulic Press upto 1500 tons capacity & bending machines suitable for 5000mm face and thickness 80mm for making MG cylinder upto 16 diameter & dryers upto 5000 mm face. A special grade casting foundry upto 1.5 tons capacity.

- o Manufacturing of press rolls with shrink fitted gudgeons & journals upto 1200 mm diameters & 5000 mm face suited for a linear load of 200 kg/cm

- o Besides casting & bending, inhouse total machining & welding (Electric & Argon Arc)

- o Facility for all offered products
- o Inhouse dynamic balancing machine suitable for all products

- o We work on 3D Drawing for all items

180+ successfully supply and installations of its equipment in Asian & African Countries
Plant & Facility

- o Plant area – 100000 sqft

- o Built up area – 80000 sqft

- o Lathe machines with automation for manufacturing high precision Press rolls, felt rolls and dryers.

Precision Equipment Installed for Manufacturing Paper Plants

- o TOS make CNC Boring Machine
- o TOS make automatic VTL Machine
- o CNC Plasma Cutting Machine
- o Automatic Plano Miller Machine
- o Automatic Welding Machines
- o Hydraulic Press Capacity – upto 1500 Ton

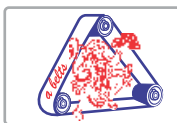
- o Bending Machine Capacity – upto 80mm thickness & 5mt width

- o Automatic CNC Cutting Machine -4.8 Mt x 12.5mt x 100 mm thickness

- o MIG Welding Machine



Anjaneya Beltings



We introduce ourselves as one of the importers and suppliers of Nylon Sand-Witch Belts, Spindle Tapes, Perlon Ropes, PTFE Coated Cloth & Tape, Food Grade

conveyor Belts, Rubber conveyor Belts (Hygienic, Heat and oil resistant grades), Imported Timing Belts Variable speed Belts, Timing Pulleys, V-Belts & V-Pulleys, Brake liner, Plastic and S S Slat Chain Conveyor Belts, SS Wire Mesh Conveyor Belts, PU ropes & tubes, PU V Belts and PU rollers. Our products are mostly used in the following industries viz. spinning, textile, texturizing, paper, tobacco & cigarette, soap and oil, wollen mills, transportation, razor blade, grinding, forging, HDPE Bag and woven sack industries, paching, printing newsprint, washing machines, petroleum refineries, computer printers, industrial laundries, tread mills & gyms, aluminum, steel plant, car factories, biscuit and bread, confectionary, food and beverages, pharmaceutical, tyre and tube, flour mills, rice mills, dhall mills and all other general industries for transmission, conveying and bucket elevators.

Bell Multikraft Pvt Ltd



Our group is the emerging group from the western part of India – Gujarat -Morbi, into diverse sectors be it ceramics,

sanitarywares, faucets, bath furniture, laminates, duplex paper & boards and industrial products.

The group is headed family of dynamic businessmen's who have made their mark on the Indian as well as Global map into various business sectors. We live with our tagline "the sound of quality" because the sound bell is as sound of hope, sancity and prosperity and we believe to deliver the same feel in our every

endeavour.

Bell Multikraft is one of the Largest Manufacturer of Kraft Liner Board in West India spread over 65000sqm.

Equipped with state of the art production line we aim to deliver high quality products to the world.

With enormous pleasure we write this mail to inform you that Bell Multi Kraft Private limited (BMKPL) is one of the finest manufacturers of International class Packaging Board. Situated in Morbi, in the state of Gujarat. (INDIA)

With the latest advanced technology and state-of-art machines and Equipments **BMKPL** will produce 108,000 metric tonnes of Kraft liner and Test Liner & Fluting paper annually and cater to the need of high quality and international standard packaging products for the FMCG, Automotive Inds., Textiles, Electronic gadgets and sophisticated tools, spare parts and equipments.

We are pleased to offer an array of packaging grades providing Industrial and retail corrugated packaging solutions for any customer, regardless of size and demand.

At **BMKPL** we are confident that our products reach customers across the country and overseas and enjoy a leadership position in key markets.

With the state-of-art integrated product development and manufacturing facilities in focus, **BKMP**L's product will represent choice for customers.

Machine BriefDeckleGsm rangeProduction capacityMin 3.9 meters 140 to 250 gsm300 tons per day **Product Range**High performance Kraft liner, Test liner, Kraft liner board, And Fluting paper It would be highly appreciable, to receive your valuable feedback for the grades of interest. Further we would be pleased to develop Niche Grades as per your requirement Related to Packaging Industry.

Papyrus 360 Netique Infotech (P) Ltd.



Market News & ViewsNetique Infotech (P) Ltd, is founded by professionals with more than 30 years of experience in the Paper Industry. We specialize in IT

solutions that are focused on Paper Mills & Trading community. Our products Netique Deckle Matcher & Paper Agent are well renowned.

Sourcing Partner

Netique Infotech Pvt. Ltd is an Indian company that sources all grades of recovered paper for the paper manufacturing industry. We are based in Bangalore, India and have sourcing operations in USA, Europe, Middle East, South East Asia & Australia while our supply operations are in Asia, Africa. Netique is reputed to be a reliable sourcing partner, providing exclusive value added quality services, while supplying a diverse and comprehensive range of recovered paper grades in the form of baled, palletized or roll stock.



Flosys Pump



Flosys Pumps was incorporated in the year 2010 by professionals having experience in the relevant field (Pump and system technology)

for over 3 decades. At Flosys, we have the technical strength necessary for

manufacturing products that varies based on applications and process industries.

Flosys being a renowned market leader manufacturers and supplies comprehensive range of Progressive Cavity Pumps, Gear Pumps and replacement progressive cavity pumps parts for pumping applications.

Our pumps are used to handle variety of liquid like non viscous, viscous, corrosive, abrasive, high consistent, hygienic, fibrous, sludge, slurries with solid in suspension such as semisolids including Non Newtonian fluids.

We provide tailor-made service that meet client's purpose at affordable prices. Our commitment to quality has earned us an enviable reputation worldwide.

Our Strengths

- o Market – driven Products
- o Customer-focussed Solutions
- o Unparalleled Levels of Services
- o Timely Delivery of Products
- o Precise & Highly Durable

Basic Design & Pumping Principle

The pumping element comprises of a precision machined single external helical metallic rotor and a double internal helix elastomeric stator.

Due to special profile of rotor and stator, a sealing line is formed along the axis of the rotor, which is maintained at static or dynamic condition.

As the rotor turns within the stator, these cavities progress from suction to discharge end of the pump carrying the fluid.

Advantages

- o Lengthy Geometry
- o Lower Slider Velocity
- o Higher Capacity with lower rotor dia & eccentricity
- o Increased Service Life
- o Stability in pressure & flow due to longer sealing lines
- o Reduced thrust loads on bearing & universal joint
- o Reduced vibration, Turbulence, Shear rates & pulsation
- o Smooth and even performance
- o Improved overall efficiency
- o Low NPSH R

Salient Features

- o Improved rotor and service geometry
- o Cardan type universal joint
- o Convenient inspection windows
- o Easy drainage slope
- o Sealing housing standardised to ISO 3069 sealing chamber type
- o Optional shaft sleeve
- o Taper roller bearing
- o Reversible

Vrinda Papers Pvt. Ltd



We are a group of enthusiastic people working together as certified distributors for reputed national and international paper mills. We offer customized

solutions for varying paper needs of our clients and our ability to understand the requirement of the market enable us to deliver the claimed excellence.

The smooth flow of paper goods from manufacturers to consumers in their desired form sponsors our reputation in the paper industry and we are greatly appreciated for it.

Our success story is based on all other stories written in our delivered paper and painted on our delivered canvases. We take pride in serving the most prestigious paper mills not only on the national but also on the global level.

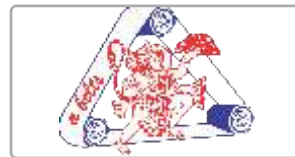
The satisfaction with the services and success of our clients is what concerns us the most at Vrinda Papers Pvt. Ltd. We understand the market needs of our customers and empathize with them to deliver completely personalized facilities.

No matter if you're a designer, a local printer, corporate house representative or an individual customer, we provide you with your desired paper solutions, all under the same roof.

Our specialized services of paper cutting, warehouse facilitation, paper recycling, and damage control stand out among the others of its kind due to the quality of work and eminent customer care. We use high-tech equipment and lend the expertise of professional operators to carry out the process which reduces the chances of expected complexities to zero and guarantees fineness.

Our business values not only enable us to treat our clients flamboyantly but also help us create a friendly and comfortable working environment for our employees.

Vrinda Papers Pvt. Ltd. is a Delhi/NCR based paper trading group aiming at creating unique and high standards of services in the national and international market.



...and many more



...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