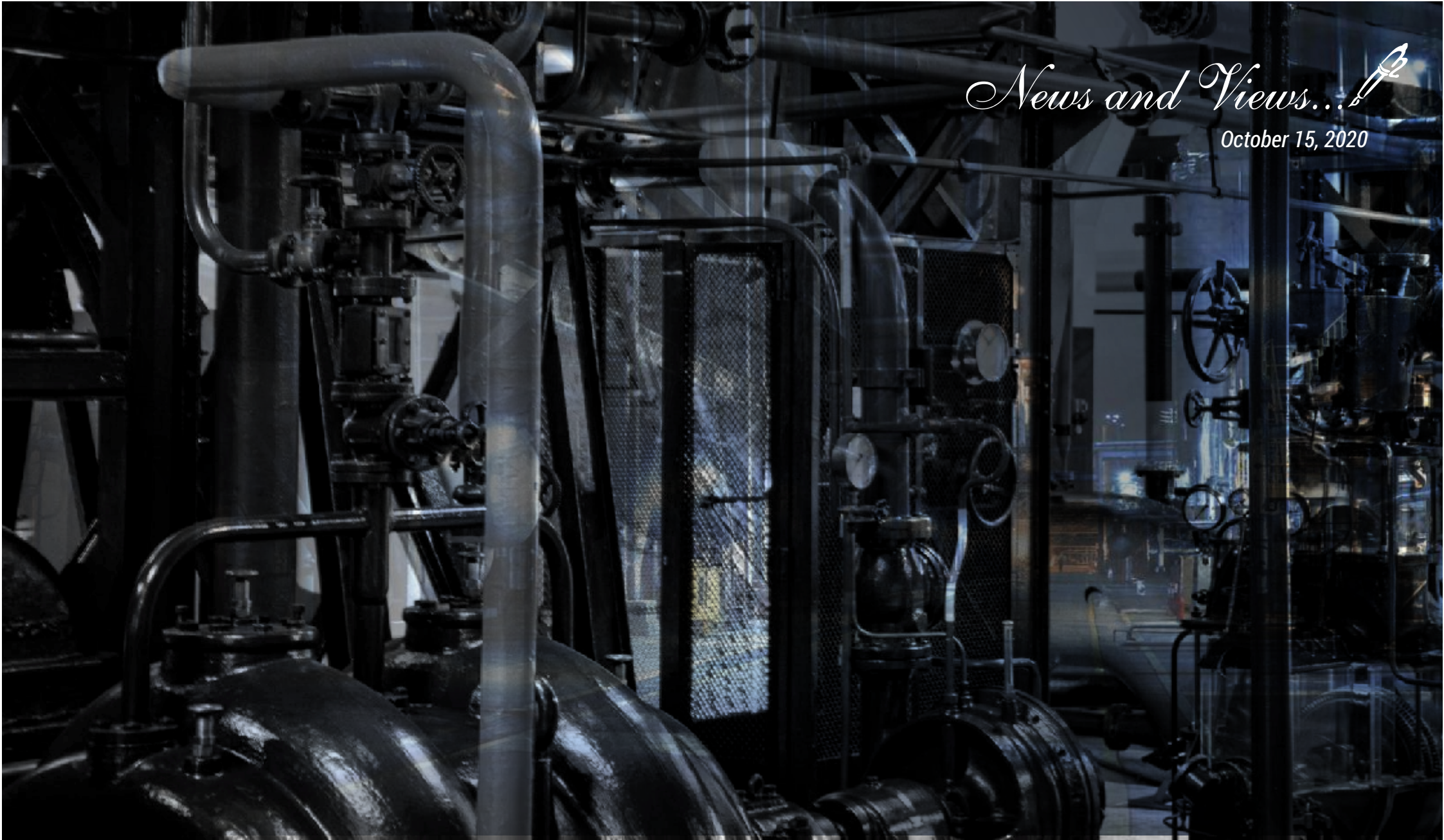
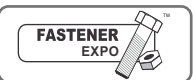


*News and Views...*

October 15, 2020



**GRAND BUSINESS CARNIVAL FOR METAL, MACHINERY AND MANUFACTURING INDUSTRIES**



**3-5 September 2021**  
Bombay Exhibition Centre, Mumbai, India



## INDUSTRY NEWS



### India's average daily Covid-19 cases declining for 5 weeks: Health ministry

The Union health ministry on Tuesday said that India's trajectory of daily Covid-19 cases has been witnessing a downward trend over the last five weeks.

"India is showing a trend of declining average daily cases over the past 5 weeks," the ministry wrote on Twitter along with a graph that showed the daily average figures from the week starting September 9. According to the government, the average daily cases between September 9 and September 15 stood at 92,830, which came down to 90,346 between September 16 and September 22. The falling trend continued with 83,232 average new cases between September 23 and September 29 and in the corresponding two weeks, the average dropped to 77,113 and 72,576, data cited by the government showed.

The ministry also pointed towards the declining number of active cases. After a month, on October 9, active cases fell below the 900,000-mark and have steadily followed a downward slope since, it said in the tweet. As of Monday, there were 861,853 active cases of the coronavirus disease while the total caseload in the country stood at 7,120,538. Over 100,000 lakh people have died of the infection in the country.

The recovery figures, however, continue to keep hopes up. So far 6,149,535 have recovered from the viral infection in home isolation or have been discharged from hospitals.

In another tweet, the ministry hailed sustained testing efforts for the encouraging results. "The Centre in close collaboration with the State/UT governments has adopted a graded strategy of #COVID19 management and public health response. Sustained efforts of TEST TRACK TRACE TREAT TECHNOLOGY are progressively yielding encouraging outcomes," it said.

– *Hindustan Times*



### Good news! Harsh Vardhan makes big announcement over availability of COVID-19 vaccine in India

In a good news for millions of Indians, Union Health Minister Harsh Vardhan on Tuesday said that vaccine against coronavirus COVID-19 is expected in India by early 2021. The Union minister added that experts are currently busy chalking out plans on how to roll out the distribution of the vaccine in the country.

"We're expecting that early next year we should have vaccine in the country from maybe more than one source. Our expert groups are formulating strategies to plan on how to roll out the distribution of the vaccine in the country", said Harsh Vardhan during Group of Ministers meeting.

Harsh Vardhan made the statement at a time when India's COVID-19 caseload surpassed 71 lakh-mark. As per the Ministry of Health data released on Tuesday, the coronavirus cases in India stands at 71,75,881 including 8,38,729 active cases, 62,27,296 cured/discharged/migrated cases & 1,09,856 deaths.

– *Zeenews*



## India's first coronavirus vaccine: Here is everything we know about its development

The whole world is waiting eagerly for an effective vaccine to fight the coronavirus pandemic. It has not only claimed lives, but also impacted people, both physically and mentally. There are more than 170 vaccines in progress right now, but closer home we have our hopes pinned on India's first vaccine called Covaxin.

Under normal circumstances, researchers and scientists take years before formulating and releasing a vaccine, however, the global impact of COVID on humankind has pressed a 'forward' button on all vaccines, where it is safe to expect a vaccine in the next 4-5 months (within a span of 12-18 months).

Covaxin, the vaccine candidate developed by Bharat Biotech in collaboration with Indian Council of Medical Research (ICMR) is in Phase 2 clinical trial in the country. And now the makers have sought approval from drug regulators to start the third phase clinical trial. As per reports, the Drugs Controller General of India (DGCI) has asked Bharat

Biotech to submit "complete safety and immunogenicity data of the phase II trial" and some clarifications before proceeding for the next stage. The results of their animal-based trial of the vaccine were found to be favourable. "The vaccine candidate was found to generate robust immune responses. Thus, preventing infection and disease in the primates upon high amounts of exposure to live SARS-CoV-2 virus." The vaccine candidate has been tested in 12 hospitals across India, where volunteers between the ages of 18 and 55 participated in the trial. These volunteers had no co-morbidities. The places where the trial took place include Hyderabad, Delhi, Goa, Rohtak, Patna, Kancheepuram and Bhubaneswar, among other places.

### The science behind the vaccine

Covaxin falls under the category of inactivated vaccines. For the unversed, this means that the virus pathogen is 'deactivated' to disable it from causing infection, however, some parts of the virus can be identified by the immune system, leading to an immune reaction.

Bharat Biotech took a strain of isolated coronavirus from the National Institute of Virology, Pune to develop the inactivated vaccine at its Hyderabad facility, Genome Valley.

The previous week, the firm shared that Covaxin will make use of ViroVax's adjuvant Alhydroxiqum-II to boost immune response in the body and provide longer lasting immunity. "There is critical need for development and availability of adjuvants that elucidate mechanisms of action inducing greater

antibody responses to vaccine antigens, thus resulting in long-term protection against pathogens.

Adjuvants also enhance the sustainability of the global vaccine supply on account of their antigen-sparing effect," shared Krishna Ella, chairman and managing director of Bharat Biotech.

As per official statement from Bharat Biotech, once the vaccine is injected into a human, it has no potential to infect or replicate, since it is a killed virus. It just serves the immune system as a dead virus and mounts an antibody response towards the virus.

### Phase 3 for Covaxin

To kickstart the phase 3 trial, Bharat Biotech will be enrolling 28,500 volunteers who will be older than 18 years. The trial will be carried out in 10 Indian states including Mumbai, Delhi, Patna and Lucknow.

As per reports from PTI, a dose of 0.5 ml on day 0 and 28 will be the administered dose for volunteers.

### What to expect

Once the trials are done, Bharat Biotech will be targeting a manufacturing capacity of 300 million doses. India is the largest vaccine producing country in the world and if India is able to produce an indigenous vaccine, it will help in fighting the capacity and managing the delivery capacity.

ICMR has said that the vaccine candidate will follow all global norms to produce the most effective vaccine, which may take sometime.

– Times of India



## Unlock 5: Events industry gets permission to hold B2B exhibitions

While permitting more economic activities to reopen in the Unlock 5 phase, the Ministry of Home Affairs (MHA) has issued guidelines for the next one month starting from October 1. As per the new Unlock 5 guidelines, the government today has allowed more social, academic, sports, entertainment, cultural, religious and political events. However, the number of people has been limited to 50% of the space capacity of the event area with a maximum limit of 200 people from October 15.

In open spaces, keeping the size of the ground/space in view and with strict observance of social distancing, mandatory wearing of face masks, provision for thermal scanning and hand wash sanitiser, events can be held, said the new guidelines.

The state and the UT governments will issue detailed SOPs to regulate such gatherings and strictly enforce them. However, international air travel passengers will be prohibited from attending these events unless permitted by the MHA, the guidelines said.

As per the Unlock 5 guidelines, B2B exhibitions will be permitted to open with effect from October 15 for which SOPs will be issued by the Department of Commerce. The decision has offered some respite to the events industry stakeholders including the hospitality industry. Agencies like India Convention Promotion Bureau (ICPB), EEMA have been asking for reliefs for the sector to restart businesses.

Similarly, cinemas, theatres, multiplexes will be permitted to open with upto 50% of their seating capacity, in areas outside the containment zones with effect from October 15. Guidelines will be issued by the Ministry of Information & Broadcasting.

The new guidelines also give the states and UTs to decide in respect of reopening of schools and coaching institutions after October 15 in a graded manner.

– ETTravelWorld.com



## COVID-19 recovery rate improves to 86.36 pct

The Government today said that the country's recovery rate among the COVID-19 patients has reached to 86.36 per cent. During the last 24 hours, more than 71 thousand COVID patients have been recovered. Health Ministry said, the total number of recoveries has reached over 61 lakh 49 thousand. Presently, the total number of active cases in the country is eight lakh 61 thousand.

In the last 24 hours, 66 thousand 732 new cases have been reported taking the total number of positive cases in the country so far to over 71 lakh. Currently, India's Case Fatality Rate is at 1.53 per cent, which is one of the lowest globally.

816 deaths have been reported in the last 24 hours, taking the toll to one lakh nine thousand 150.

According to ICMR, during the last 24 hours, more than nine lakh 94 thousand tests have been conducted. The total sample tested so far has reached to over eight crore 78 lakh.

– All India Radio News

## Roll-out of Feluda test expected in next few weeks, says Harsh Vardhan

Union Health Minister Harsh Vardhan on Sunday said the government has not yet taken a view on granting emergency authorisation to COVID-19 vaccines in India, as and when they become available. The minister was quoted as saying by PTI that the Feluda paper strip test for SARS-CoV-2 diagnosis could be rolled out in the next few weeks. Presently COVID-19 vaccines are in various stages of phases 1, 2 and 3, the results of which are awaited, Vardhan said during an interaction with his social media followers on 'Sunday Samvad' platform. "Adequate safety and efficacy data is required for emergency use authorisation, vaccine approval for ensuring patient safety. Further course of action will depend on the data generated," he underlined.

The Union Health Ministry Sunday said that the number of recoveries in India have crossed the 60-lakh mark. The top five states with maximum caseload (61 per cent active cases) are contributing more than half (54.3 per cent) of the total recoveries, it further said. India's coronavirus caseload crossed the 70-lakh mark on Sunday, while the total number of recoveries reached 60,77,977, according to data from the Union Health Ministry.

A total of 74,383 infections were reported on Sunday, taking the country's caseload to 70,53,807, while the death toll touched 1,08,334, with 918 deaths in a day. There are 8,67,496 active cases of coronavirus in the country, comprising 12.29 per

cent of the total caseload, the data stated. India is the second worst-hit country in terms of total coronavirus cases, after the United States, while it is third in spot in terms of fatalities globally after the US and Brazil, according to John Hopkins University data.



## The mystery of India's low coronavirus death rate

India, with its population of 1.3 billion people, has the world's second-highest number of coronavirus cases, now more than seven million, but far fewer reported deaths than other badly-hit countries. The figures have baffled experts, with explanations ranging from the young population to immunity given by other endemic viral diseases and under-reporting.

Here are some of the questions and theories raised by India's pandemic statistics:

### - What are the figures? -

India said on Sunday there had been 108,334 fatalities from Covid-19 since the first death was reported in mid-March. The world's second-most populous nation has the lowest number of deaths per 100 confirmed cases -- the observed case-fatality ratio -- among the top 20 worst-affected nations at 1.5 percent, according to a Johns Hopkins University tally.

In comparison, the United States, the most infected country, has a death rate of 2.8 percent. India's number of deaths per 100,000 population is 7.73, compared with 64.74 in the United States.

### - Younger population -

Older people suffering from conditions such as diabetes and heart disease have become a particular target of the pandemic but India has a young population with a median age of 28.4, according to the UN World Population Prospects report. In comparison, France -- which has reported almost 700,000 cases and more than 32,000 deaths for a death rate of 4.7 percent -- has a median age of 42.3.



#### **- Late start, strict lockdown -**

The Indian government says the first infection was detected on January 30, with numbers passing 100 in mid-March. By that time, the epidemic was already raging across Europe. Italy had reported more than 24,000 infections and almost 2,000 deaths, while France recorded nearly 5,500 cases and around 150 deaths. Prime Minister Narendra Modi ordered a nationwide lockdown from March 25 that severely limited movement. That gave India time to prepare for the pandemic, while experts say the strict lockdown may have helped doctors learn from the experiences of other countries. "Many of the treatment protocols were much better stabilised (by that time), whether it was oxygen use or ICU use," Anand Krishnan, a community medicine professor at the All India Institute of Medical Sciences in New Delhi, told AFP.

#### **- Possible immunity -**

Virologist T. Jacob John and other experts told AFP it is possible that other viral diseases such as dengue fever, which is endemic in India, may have given the population some antibody protection against the coronavirus. Others say it is also plausible that exposure to other milder coronaviruses could give some cross-immunity. But all experts say more research is needed into this line of defence.

#### **- Under-counting -**

India already does not count all deaths. The problem is more acute in rural areas where 70 percent of the population live. Many rural deaths are not recorded unless the person has been in a hospital. This has been accentuated during the

coronavirus. In many cities, tallies given by city governments and at cemeteries and crematoria do not match. Activists accuse some states of deliberately blaming other conditions for Covid-19 deaths. "Our poor routine death surveillance system... misses many deaths in the first place," Bangalore-based community medicine expert Hemant Shewade told AFP. He reckons that only one in five deaths is recorded with a cause. Shewade, who has been analysing India's official toll data, said many suspected Covid-19 deaths were not being recorded. Government-conducted serological surveys -- which test blood for antibodies to estimate how many have fought off the virus -- indicate that 10 times the official number of people may have already been infected, meaning many deaths could have gone

unreported, he added. Meanwhile in some cases, the coronavirus may not be listed as the cause of death for patients with other medical conditions.

#### **- How to boost accuracy -**

Experts say greater toll accuracy is possible if there is more testing, better recording of deaths and post-mortem examinations are carried out on suspected victims. Monitoring excess mortality -- the number of deaths above the "normal" figure -- as well as deaths at home could also shed some light on the real toll, Shewade said. Mumbai, the country's worst-hit city, found 13,000 excess deaths in March-July compared with the same period last year -- twice the number of reported virus deaths at that time, the Indian Express reported.



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



### Steelmakers are witnessing early signs of recovery from Q2 FY21: Icra

Indian steel industry is witnessing early signs of recovery from the September quarter of FY 2021, supported by easing of mobility restrictions, and a gradual improvement in the domestic demand environment.

"The performance of steel mills, especially blast furnace players, is expected to register a healthy rebound in Q2, supported by rising capacity utilisation rates, successive steel prices hikes, and tepid input costs," rating agency Icra NSE -0.25 % said in a webinar on Tuesday.

However, the rating agency noted that there is an uneven pace of recovery between the primary and secondary steel producers, with the former managing to increase market share, helping them operate at higher asset utilisation rates than the secondary mills.

"Nonetheless, the overall financial performance for FY2021 is likely to remain subdued, given the pandemic related disruptions suffered in the early part of the fiscal," said Icra's senior vice-president, Jayanta Roy

As per Icra, the domestic steel industry, especially the primary players have already surpassed the average capacity utilisation level of 77% which was prevailing in FY2020 full year.

"The steel industry's capacity utilisation rates have steadily inched up from the lows of 27% in April 2020 to 78% in August 2020, which suggests that the operating environment is improving," said Roy

Steelmakers have announced multiple price hikes in recent months, whereas the input costs are likely to trend lower, largely due to tepid seaborne coking coal prices. This would support a recovery in mill margins from the Q1 lows, he added. Given the significant disruption in various steel consuming industries during April and May 2020, domestic steel mills were increasingly tapping export markets to maintain capacity utilisation rates and shore up balance sheet liquidity. "Apart from finished steel exports, Indian mills also exported large volumes of semis in the current fiscal. Around 64% of India's semis exports were directed to China,

which led to China displacing Vietnam as India's leading steel export destination in FY2021 thus far," the rating agency said.

As the domestic demand is showing signs of recovery, and the share of exports gradually declining, the profit margins of domestic mills would benefit from a richer product mix from Q2 FY2021, noted Icra.

With regards to RBI's circular on restructuring loans for the steel sector, Icra said that the eligibility criteria being restricted to accounts classified as "standard" and also not in default for more than 30 days as on March 1, 2020, would make steelmakers who were already under significant stress even before the pandemic would find themselves ineligible.

The RBI's August 6, 2020 circular on the "Resolution Framework for COVID-19-related Stress" and the September 4, 2020 "Report of the Expert Committee" headed by Mr. K.V. Kamath provides a one-time window for eligible steelmakers, under stress due to the pandemic, to restructure their loans on more favorable terms.

Based on the implementation of restructuring schemes in the past, Icra has identified that only companies that cross the threshold level of total debt to Ebitda of 5.3 times will make the cut. However, Icra research shows only 10% of the agency's rated portfolio made the cut in FY2020.

"For steel makers under Covid-19 related stress, the restructuring plans may have to look at past track records and carefully fine tune strategies to ensure achievement of the targets set by the RBI," the agency said.

– *The Economic Times*



## Steel/Metal Industry: Baosteel Cuts November HR Price

Baosteel has slashed its November list price for HR products by RMB100/ton and frozen prices for CR and plate. High distribution inventory levels and slowing domestic distribution price hikes serve as the background for Baosteel's HR price cut. At yearend, steel prices should receive support from a decline in crude steel production in China. Going forward, high inventory levels and expectations for demand recovery in 2021 are to be important variables governing steel prices.

Baosteel cuts November HR price by RMB100/ton due to high inventory levels

China's Baosteel (600019.SH) has cut its November domestic list price for HR products by RMB100/ton and frozen prices for CR and plate. We note that Baosteel has consistently raised its HR distribution price on a monthly basis since June, when the Covid-19 crisis began calming down in China. The November price cut represents the first decline in six months. Meanwhile, having increased steadily from RMB100/ton to RMB280/ton from July, the CR price is to remain frozen in November.

As background, we recall that Baosteel's September announcement of price hikes was justified by the prediction that greater automobile production in 2H20 would support CR prices. Although there is no significant change in the firm's view, we believe that the November price decisions have been motivated by: 1) higher than usual steel inventories in China; and 2) recent

distribution price decline. As of Oct 8, the steel distribution inventories of 35 major Chinese cities totaled 15.51mn tons (+37.8% y-y). By product, rebar and HR inventories were up 72.3% and 20.9% y-y, respectively. However, CR distribution inventories have remained flat y-y since end-June. In September, domestic steel distribution prices in China fell 3.7% for HR, 2.6% for rebar, and 1.5% for plate.

Strength of China's yearend steel production cuts and expectations for 2021 demand recovery are key to steel prices

As of Oct 2, China's blast furnace utilization rate (based on 163 sites nationwide) came to 68.1%, showing ongoing decline from the yearly high of 71.3% logged on Aug 13. While the average daily crude steel production of China's key players in late September totaled 2.19mn tons (the highest level of the year), we expect the figure to shrink moving towards yearend. Although China's policy of regulating winter season steel production (which should come into effect soon) may support steel prices at the end of the year, important variables will remain in play, including: 1) the strength of such steel output reductions; 2) currently high steel inventory levels; and 3) expectations for steel demand recovery in 2021.

On Oct 10, the prices of iron ore and hard coking coal came to US\$124.8/ton and US\$132.3/ton, respectively. Against this backdrop, we expect blast furnace operators to face rising cost burden (q-q) in 4Q20. Meanwhile, domestic steel players are working to secure profitability via ASP hikes. We note that inventories of imported iron ore

at major Chinese ports stood at 120.61mn tons as of Oct 5, marking the first instance of y-y growth this year. We expect iron ore prices to stabilize downwards moving ahead, given China's winter steel production cuts and Vale's production expansion plans.

– **Metal Junction**







## Sandvik and BEAMIT Progress in Additive Manufacturing

World Steel Construction Joint Stock Company and Tan Phuoc Thinh Construction and Investment JSC signed a contract of cooperation on September 29 in Vung Tau.

The deal involves cooperation in design, production, and construction for H&I-8 of Long Son Petrochemicals Complex.

Long Son Petrochemicals Complex (Long Son Petrochemicals - LSP) is invested by Thailand's SCG Group with a total registered capital of about \$5.4 billion, located in Long Son District, Ba Ria - Vung Tau Province. It is considered the first petrochemicals complex in Vietnam with a capacity of up to 1.6 million tons a year, capable of replacing imported polyolefins.

Accordingly, Long Son Petrochemicals Complex, to cover 56,000 square meters and valued at up to \$10 million, will be designed and constructed by World Steel Group.

Pham Van Triem, chairman of Tan Phuoc Thinh Investment and Construction Joint Stock Company, said after evaluating leading

steel manufacturers in Vietnam, the company chose World Steel Group. World Steel Group specializes in providing package solutions in the fields of pre-engineered steel buildings for industrial use from design, production and construction installation. It is involved in Hoa Phat Iron and Steel Complex, CPV Food, GPPD - Binh Phuoc Becamex energy battery manufacturing factory, Tongwei Group's projects in Tien Giang and Hai Duong, as well as Thailand's 7-Eleven, the Philippines' Coca Cola warehouse, and exports to the U.S. market.

The company is the first in Vietnam and Asia honored with a IAS AC472 Quality Certificate for the steel structure sector. The prestigious certificate is recognized by American Metal Building Manufacturers Association (MBMA) and ICC, and is the standard metric for companies that design and manufacture pre-engineered steel structures and steel building systems for the U.S.

Southern Petrochemicals Complex (in Long Son Commune, Vung Tau) will greatly boost economic development in Ba Ria - Vung Tau Province, and is expected to complete in 2022. When operational, the project would attract new investment trends in the post-petrochemicals sector. With a total investment of \$5.4 billion, the complex will employ about 1,000 skilled workers and contribute about \$60 million a year to the province's budget.

– **Metal Junction**

## Komatsu HD785 Dumper creates history; logs 60,000 hrs at Tata Steel's Noamundi Iron Ore Minesto

At Tata Steel's Noamundi Iron Ore Mines, Larsen & Toubro had delivered and commissioned the first batch of Komatsu HD785 Dump Trucks way back in 2008. One of these Dumpers (Serial no N10029) crossed 60,000 hrs in July 2020 at Noamundi Iron Ore Mines, creating history in Komatsu's journey in India. This is the first mining truck in the iron ore mining industry in India to achieve this feat. During 60,000 hours of operation, the HD785 Dumper completed 1,29,637 trips and hauled 12.48-million-ton material with 94% equipment availability.

Komatsu products are known for their superior quality and deliver high performance. The L&T team deployed on site at Noamundi provided round-the-clock service and was a critical success factor in achieving this milestone. L&T was engaged as the service partner to provide maintenance for Komatsu fleet under FMC contract besides extending equipment training for the operators.

Today, Tata Steel operates a total fleet of 64 Komatsu machines in its Ore Mines & Quarries Division in Noamundi (Jharkhand), Joda (Odisha) and Khondbond (Odisha). This fleet includes HD785 Dump Trucks, WA900 Wheel Loaders, GD825A Motor Graders, D275 Crawler Dozers, WD600 Wheel Dozer and Water Sprinklers. L&T has also supplied Komatsu machines to TSL's captive Coal Mines in West Bokaro.

– **EPC World**

## **Sandvik gets ISO 13485:2016 medical certification for titanium powder plant**

Sandvik's new powder plant in Sweden has recently received the 'ISO 13485:2016' medical certification for Osprey® titanium powders, now approved for use in the additive manufacturing of medical applications. 3D printing of implants enables rapid manufacturing directly from an individual's anatomical data – enhancing the healing process and improving the prognosis for the patient.

Sandvik's titanium powder plant, located in Sandviken Sweden, was inaugurated in the end of 2019, with more than 150 guests including end-users in key industries like aerospace and medical. Since then, extensive work has been ongoing to ramp-up the highly automated plant, fine-tuning the process and optimizing the powder to ensure the best possible consistency, morphology and quality required for additive manufacturing. As a result of this meticulous and structured work, the 'ISO 13485:2016' certification for medical was recently received in August. Earlier this year, the same powder plant also achieved the prestigious 'AS9100D' aerospace certification.

"Getting the ISO 13485:2016 medical certification will allow our medical customers to complete the necessary regulatory supplier approvals when bringing a medical application to market, utilizing Osprey® titanium powders from Sandvik," says Keith Murray, VP and Head of Global Sales at Sandvik Additive Manufacturing.

The properties of the metal powders used

directly impact the reliability of the performance of the AM-process, as well as the quality and performance of the finished product. This medical certification ensures that best practices and continuous improvement techniques – including the company's development, manufacturing, and testing capabilities – are leveraged during all stages of the powder lifecycle, resulting in a safer medical device.

"In additive manufacturing it is essential to use high-quality metal powders with consistent quality, adapted to the different additive manufacturing processes. Sandvik's highly automated manufacturing process ensures excellent consistency," says Keith Murray.

– **Machine Tools World**

## **Eimco Elecon launches product for underground mining**

Eimco Elecon in a filing to BSE has informed that it has launched new products for underground mining. As per the filing the products launched by the company are initiatives of the company towards Make in India Concept.

The newly launched products are Continuous Miner CM3000, Roof Bolter RB2C, Shuttle Car SC10 LH and Shuttle Car SC10 RH. These products are manufactured specially to cater to the domestic market and will be used for underground mining.

– **EPC World**

## **Siemens and DB Cargo Sign Framework Agreement for 400 Locomotives**

Siemens and DB Cargo have signed a framework agreement to procure up to 400 dual-mode locomotives. The framework agreement comprises up to 400 vehicles and investment volume corresponds to well over €1 billion.

The locomotives of the type Vectron Dual Mode will be delivered with specific adaptations for the range of applications planned by DB Cargo. The locomotives can be operated both with diesel and electric power. In the first instance, DB Cargo will order 100 locomotives of the class 248.

"With the Vectron Dual Mode, DB Cargo is investing in future-proof, sustainable and economical rail freight transport. As an alternative to conventional diesel

locomotives, the Vectron Dual Mode offers the best of two worlds: It operates purely in electric mode on electrified sections of the route to save fuel and reduce maintenance costs. And it can be switched to diesel operation on stretches without overhead lines, eliminating the need to change locomotives," stated Albrecht Neumann, CEO, Siemens Mobility Rolling Stock.

The bio-mode capability of the locomotives will help the company save around eight million litres of fuel and reduce carbon dioxide emissions by 17,000tpa. Delivery of these locomotives will begin in 2023.

– **Modern Manufacturing India**





### **Sandvik and BEAMIT make several advances in additive manufacturing**

Sandvik and BEAMIT have made several important advances in metal additive manufacturing (AM) over the last six months. Most recently the BEAMIT Group acquired ZARE, meaning that two leading additive manufacturing service bureaus in Europe join forces to become one of the largest independent AM service providers, serving the most demanding industries.

In July 2019, Sandvik acquired a significant stake in leading European-based AM service provider BEAMIT, with the right to further increase its stake over time. BEAMIT is a trusted supplier of advanced metal AM-components to demanding industries, including aerospace, space, automotive and energy.

"In September 2020, Sandvik and BEAMIT took another important step forward when the BEAMIT Group acquired 100% of ZARE. This brings together two leading additive manufacturing service bureaus in Europe, to create one of the largest independent AM service providers – serving the most

demanding industries," says Kristian Egeberg, President of Sandvik Additive Manufacturing.

ZARE, founded in 1963, has progressively grown into a leading, integrated additive manufacturing service bureau – focusing on high-end components for demanding industries like aerospace, automotive, motorsport and energy – offering a full range of advanced AM services. The company has around 50 employees, a wide range of metal and polymer printers, as well as CNC machines for post-processing operations and relevant quality certifications.

– ***Machine Tools World***

### **EU imposes import duties on China, Indonesia, Taiwan stainless steel'**

The European Union will impose tariffs on imports of hot-rolled stainless steel coils and sheets from China, Indonesia and Taiwan after an investigation found they were being sold at artificially low prices.

The European Commission, which conducted the investigation, has set duties of up to 19% for imports from China, of 17.3% for product from Indonesia and up to 7.5% for stainless steel from Taiwan, the EU's official journal said on Wednesday.

The Commission said that the anti-dumping duties, to take effect from Thursday, aim to remedy the damage caused to EU producers located mainly in Belgium, Italy and Finland.

– ***Metal Junction***

### **India reviews anti-dumping duty extension on steel imports from seven countries**

The Directorate General of Trade Remedies (DGTR), the investigative arm of the Commerce Ministry, has initiated a probe to review re-imposition of anti-Dumping duty on certain kinds of steels from seven countries including China.

Months ago, India had imposed anti-dumping duty on certain types of steel products imported from China, Korea, European Union, South Africa, Taiwan, Thailand and the US with a view to guard domestic manufacturers from cheap imports. "On the basis of the duly substantiated application by or on behalf of the domestic industry, and having satisfied itself, on the basis of the prima facie evidence submitted by the domestic industry, about the likelihood of continuation or recurrence of dumping and injury to the domestic industry...the authority, hereby, initiates a sunset review investigation," the notification, dated September 30, stated.

– ***Metal Junction***



## Import of iron, steel items need mandatory registration under SIMS: Govt

The government has now made it mandatory for traders to register themselves with the Steel Import Monitoring System (SIMS) to import all iron and steel products as also certain railways related items, a move aimed at discouraging inbound shipments of such goods and promoting local manufacturing, a public notice issued on Monday said.

The mandatory registration was earlier imposed on about 300 items. Now about 530 more products have been added.

The restrictions were imposed on all products under chapter 72 (iron and steel), chapter 73 (articles of iron and steel) and chapter 86 (railway Or tramway locomotives, rolling-stock and parts; railway or tramway track fixtures and fittings; mechanical traffic signalling equipment of all kinds).

The Directorate General of Foreign Trade (DGFT), under the commerce ministry, said that "import" of these products "shall now require compulsory registration" under the SIMS.

These items include certain flat-rolled products; some stranded wire, ropes, cables; certain items of springs and leaves for springs of iron and steel; tubes, pipes and hollow profiles; diesel-electric locomotives; and some parts of railways.

SIMS, under the Department of Commerce, collects and publishes data of steel mill product imports.

In the public notice, the directorate said that the implementation date for this notification will be October 16.

"Bill of entry on or after October 16, 2020 shall require compulsory registration under SIMS," it said.

The communication also said that SIMS shall require importers to submit advance information in an online system and obtain an automatic registration number by paying registration fee of Re 1 per thousand subject to minimum of Rs 500 and maximum of Rs 1 lakh on CIF (cost insurance freight) value.

The importer can apply for registration not earlier than 60th day and not later than 16th day before the expected date of arrival of import consignment.

The automatic registration number would be valid for 75 days.

In a separate notification, the DGFT said endorsement of Kimberley Process (KP) certificates issued by valid issuing authority in the case of errors of minor nature such as typographical can be allowed subject to endorsement by the Gem and Jewellery Export Promotion Council as per the standard operating procedure.

Further, it said that re-export of imported rough diamonds, if so ordered by customs authorities, can be allowed subject to the technical KP certificate issued by the council. KP is a joint initiative of the governments, industry and civil societies to stem flow of 'conflict diamonds' - the rough diamonds used by rebel movements to finance wars against legitimate governments.

– **Business Standard**



## Wire bending machines: LMG welcomes OMCG among its brand names

Leading Machinery Germany is a supplier for the wire and cable industries in the German speaking area in Europe.

Headquartered in Ostfildern, LMG offers cutting-edge

manufacturing technologies, spare parts, and consulting services.

The company is happy to welcome OMCG among its wide portfolio, already featuring the brand names of Cometo, Tramev, AMPE, Felisari, Promills, Asteq, and Alvaro.

Founded in 1963, OMCG is an Italian company specialized in the design and manufacture of CNC machines for wire, tube, and metal strip bending and forming.

– **Expometals.net**



## **Jindal Stainless and Jindal Stainless Hisar to benefit from duty on stainless-steel imports**

Shares of Jindal Stainless and Jindal Stainless Hisar gained up to 17% and 11.3% respectively on the back of the government imposing provisional countervailing duty (CVD) on certain flat stainless-steel products from Indonesia to protect the domestic industry.

Stainless Steel from Indonesia has grown multifold over the past three years and has been impacting the overall industry. For instance, in FY20, stainless steel imports from Indonesia rose to 2,60,881 tons from 75,187 tons in FY19. It was less than 10,000 tons in FY18. It now contributes nearly half of the entire imports in India.

India's total demand for flat stainless-steel products ranges from 2.5 to 2.6 million tons, out of which 2 million tons is met by domestic supply and remaining from imports, mainly China and ASEAN countries with which India has free trade agreements. Thanks to cheap access to raw material such as nickel and coal and various government subsidies to the stainless-steel industry, Indonesia has emerged as the second largest exporter of stainless-steel (in FY19). Indonesia's stainless capacity is estimated at 5 million tons, several times more than the local demand.

Major portion of the remaining India's demand is met by two largest stainless companies Jindal Stainless and Jindal Stainless Hisar which have capacity of 1.1

million ton and 0.9 million ton respectively, which means a combined capacity of 2.1 MT and will be the biggest beneficiary of this.

"Had it not been for the unabated glut of subsidized imports entering India through various channels, Jindal Stainless and in fact all of Indian stainless-steel industry, would have been able to realize its true potential," said the company in its latest annual report.

Based on the findings of the Directorate General of Trade Remedies (DGTR), the finance ministry on Friday issued an order to levy the provisional countervailing duty in the range of 22.31% to 24.83% on certain types of flat stainless products for a period of four months from October 9, according to reports.

"This is only for four months as it is based on preliminary finding. But we expect similar measures for long term at the end of four months," said KK Pahuja, President of Indian Stainless-Steel Development Association.

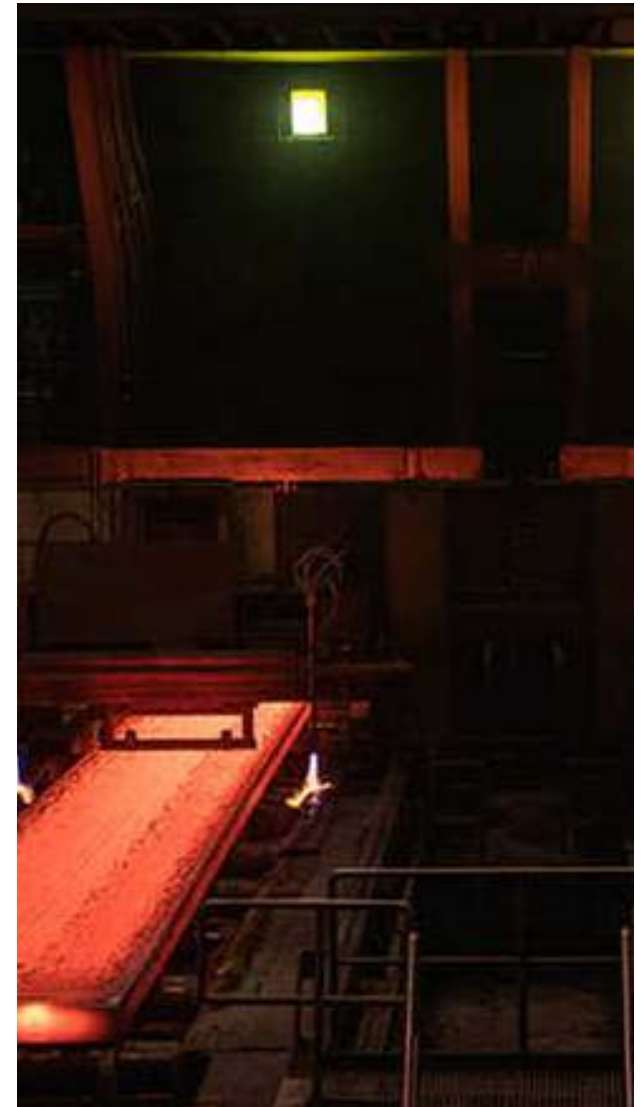
"Several hidden subsidiaries have been identified by DGTR in their investigation. This step will provide the domestic industry with the level playing field and help increase their capacity utilizations," he added. Imported stainless-steel prices are at 8% to 10% discount to domestic prices. The imposition of duties will also help better price realizations.

In FY20, Jindal Stainless did sales of Rs 12320 crore and EBIDTA (Earnings before interest, depreciation and tax) of Rs 1175 crore, but the net profit was only Rs 153 crore due to high interest outgo. Its current net debt is Rs 3500 crore. For Jindal Stainless Hisar sales, EBIDTA and net profit for FY20 stood at

Rs 8340 crore, Rs 880 crore and Rs 320 crore. Its current net debt is Rs 2090 crore.

At the current price of Rs 93.5, Jindal Stainless is trading at near 5 times EV by EBIDTA. Jindal Stainless Hisar too is trading at 5 times EV by EBIDTA at the current price of Rs 50.7.

*– The Economic Times*





## **Vedanta says committed to investing in India after failed delisting**

Shrugging off a failed bid to get its Indian flagship firm delisted from stock exchanges, mining baron Anil Agarwal's Vedanta Resources on Tuesday said it is committed to investing in the country that offers unparalleled opportunities and growth. Last week, Vedanta Ltd NSE -2.46 %'s delisting went from almost-a-success to failure due to a large number of unconfirmed orders.

The BSE on October 9 evening showed 137.74 crore shares, out of a total 169.73 crore shares held by the public, to have been offered for sale to promoters, larger than the threshold of 134.12 crore.

Some bids, however, were pending confirmation from custodians.

Reconciliation of data led to the number of shares offered for sale being trimmed to 125.47 crore.

"Launching the delisting bid to garner approx 134 crore shares was indeed a mammoth task. We saw enthusiastic participation by our shareholders that took us within striking distance of our goal, short by only 7 per cent," Vedanta Resources, the parent firm of Vedanta Ltd, said in a statement.

The delisting bid, it said, "has not been successful."

"The bid would have resulted in FDI inflow of over USD 3.15 billion into the Indian economy and helped boost growth between 0.4 per cent and 0.8 per cent through the multiplier impact of such large infusion of funds," the firm said.

The reverse book building process for public shareholders to tender their shares, which began on October 5, had concluded on October 9.

For successful delisting of the shares, 134.12 crore shares needed to have been validly tendered for the promoter shareholding to cross the 90 per cent shareholding threshold as per regulations.

Vedanta had tied up USD 3.15 billion in loans to finance the buying of shares but returned the money to lenders no sooner had the delisting bid failed.

"We wish to reiterate our unflinching commitment to India particularly in the natural resources sector. We are confident that Vedanta Ltd will continue to grow from strength to strength as a listed entity on the Indian stock exchanges," Vedanta Resources said.

Vedanta is the third company to make unsuccessful delisting efforts in the last two years after INEOS Styrolution and Linde India. LIC, which held 6.37 per cent in Vedanta, submitted all its shares at a price of Rs 320, a 267 per cent premium over the floor price of Rs 87.25, upsetting Vedanta's calculations.

The LIC bid price was the discovered price for the reverse book building process. Many other investors too bid at Rs 320 but a lot of bids were also submitted at Rs 150-160 per share.

"Vedanta looks forward to unparalleled opportunities and growth in India. The company is committed to fulfilling the goal of Aatmanirbharta in the natural resources sector," the firm said.

It expressed gratitude and thanks to the Securities and Exchange Board of India (SEBI), BSE, shareholders, financing banks and advisors to the delisting offer for their unstinted support during the entire exercise.

The number of fully paid equity shares in Vedanta, excluding American Depositary Shares (ADS), is 356.10 crore. 90 per cent shares are required to delist the firm, which comes to 320.49 crore.

Promoters already have 186.36 crore shares, and they needed an additional 134.12 crore out of the public shareholding of 169.73 crore.

Bankers and promoters had on Friday approached market regulator Sebi for a day's extension as retail shareholders faced technical glitches and were unable to submit their bids. But the request wasn't granted.

In May, the promoters of Vedanta had announced the delisting offer at Rs 87.5 per share.

Later in June, in a special resolution by postal ballot, 93.3 per cent of all shareholders and 84.3 per cent of public shareholders approved the delisting of shares of Vedanta.

**– The Economic Times**



## **Commercial mining: Auction of coal blocks may generate Rs 20,000 crore revenue per year**

The auction of coal blocks for commercial mining may lead to total revenue generation of around Rs 20,000 crore per year, a coal ministry official said. The process for auction of 38 coal blocks for commercial mining is underway.

"The total revenue for one year is expected to be around Rs 20,000 crore and capital investment is around Rs 33,000 crore," the official said.

"One year revenue (for 41 coal mines with 225.53 peak rated capacity) is calculated and comprises revenue share at four per cent i.e the floor price, royalty, NMET, DMF....calculated at peak rated capacity (PRC) considering representative price of average grade of the coal mine," he said.

Capital investment is calculated at Rs 150 crore per million tonnes per annum (MTPA) for PRC, including evacuation, he said. On the government's claim made earlier that the auction of blocks will also lead to job creation for more than 2.8 lakh people, the official said employment generation is calculated considering output per employee "to be 5,000 tonne/annum, 30 per cent leaves."

Approximately 30 per cent manpower, he said, will be engaged in associated infrastructure such as washeries, railway sidings etc and the indirect employment is three per one direct employment, the official said.

When the Centre launched the auction of blocks for commercial mining in June, it had said that it would put on sale 41 blocks. But

later, the list of blocks for auction was revised to 38.

Vedanta, JSPL, Adani Enterprises, Hindalco Industries, JSW Steel and Nalco are among the 42 companies that have submitted bids for 23 coal blocks that were put up for auction under commercial mining.

"A total of 76 bids have been received for 23 coal mines... A total of 42 companies have submitted their bids in the auction process," the coal ministry had earlier said in a statement.

The highest number of bids (seven) were submitted by Adani Enterprises, followed by Hindalco Industries and JMS Mining (five each).

The Andhra Pradesh Mineral Development Corporation, Aurobindo Reality and Infrastructure, and EMIL Mines and Minerals Resources submitted four bids each.

Vedanta Ltd submitted three bids, Jindal Steel and Power Ltd (JSPL) submitted two, JSW Steel and Nalco one each, among others.

Of the total 76 bids, the highest number of bids were made for Gotitoria (East) and Gotitoria (West) and Gare Palma IV/7 coal blocks (eight bids for each), followed by six bids each for Brahmadaha and Urma Paharitola mines.

The ministry had said two or more bids have been received for 19 coal mines.

The bids will be evaluated by a multi-disciplinary technical evaluation committee, and technically qualified bidders would be shortlisted for participation in the electronic auction to be conducted on MSTC portal from October 19. – The Economic Times

## **Hand Tools Market to surpass US\$ 26,123.3 Million globally by 2027 – Coherent Market Insights**

Hand tools are used for various purposes both in the residential and corporate sector. Screwdrivers, spanners (wrenches), pliers and cutters, hammers and mallets, and chisels are some of the most widely used hand tools. Conventional wrenches are composed of a handle at both ends.

The global Hand Tools market is expected to grow at a CAGR of 3.8 % over the forecast period 2020-27 and is estimated to account for US\$ 26,123.3 Mn in 2027.

Launch of new hand tools is expected to propel growth of the global hand tools market over the forecast period. For instance, in May 2020, Klein Tools launched two new sets of slim-tip insulated screwdrivers with 1000V rating impact and flame-resistant insulation. Grants for R&D in hand tools are also expected to aid in growth of the market. Development of new-generation products is expected to offer lucrative growth opportunities for players in the global hand tools market. Moreover, increasing adoption of Do it yourself (DIY) activities on social media and availability of hand tools on e-commerce platforms is also expected to aid in growth of the market.

**-GlobalNewsWire**



## MEDIA SPEAK



### Recovery in domestic demand a healthy sign for Indian steel industry

There is no denying that the economy has been completely shattered by the pandemic and the following lockdown. The 23.9 per cent contraction has broken the backbone of optimism. But still it seems that everything is not lost yet. In September things seem to be looking although the pandemic has not been arrested yet. In this article we will look at the green shoots appearing in the midst of all the devastation.

India's manufacturing sector expanded at its fastest pace this fiscal in September as the economy opened up after the prolonged nationwide lockdown. A survey showed that demand and output both rose even as layoffs continued.

The data from the IHS Markit India Manufacturing Purchasing Managers' Index (PMI) say it increased from 52.0 in August to 56.8 in September. This is the highest the index has reached since January 2012.

Expressing her positive reaction, Pollyanna de Lima, a director at IHS Markit, said, "manufacturing continued to move in the right direction, with PMI data for September highlighting many positives. After restrictions were lifted, factories went full steam ahead for production, supported by a surge in new work."

Incidentally, the index had slipped in April into contraction mode after remaining positive for 32 consecutive months. According to the PMI, a print above 50 means expansion, while a score below that denotes contraction.

Darren Aw of Capital Economics went on to say that the hike in September's manufacturing PMI and reaching its highest level in over eight years is a sure sign that the recovery is on. However, with India being the virus epicentre now, containment measures are likely to remain in place for a long time yet, which would dampen manufacturing prospects.

"We can see from the emerging figures that both activity and sentiment have improved in September 2020 and a fragmented recovery is underway. Hopefully, the contraction in GDP will narrow down to 12.4 per cent in the second quarter of 2021," Aditi Nayar, principal economist of Icra, said.

In a significant development, automobile companies like Maruti Suzuki and Hyundai Motor led the recovery march of passenger vehicle (PV) sales in the domestic market in

September, posting high double-digit growth ahead of the festive season. Apart from the companies mentioned above, Tata Motors, Honda, Skoda and Kia Motors have also reported a rise in September sales.

However, sales fell at Mahindra & Mahindra and Toyota Kirloskar Motor. Both said demand was picking up and there was a lot more confidence among the dealers.

Maruti Suzuki India (MSI) stated that its overall domestic sales increased 32.2 per cent to 1,52,608 units last month from 1,15,452 units in September 2019. The auto major's sales of mini cars, comprising the Alto and the S-Presso, stood at 27,246 units compared with 20,085 units in the same month last year, up 35.7 per cent. The company's sales of compact cars, such as Swift, Celerio, Ignis, Baleno and Dzire, rose 47.3 per cent to 84,213 units against 57,179 cars in September last year.

However, auto analyst Shamsher Dewan cautioned, "It is expected that a low base, upbeat rural sentiments and increased preference for personal mobility would support retail demand in the festive season. Nevertheless, the uncertainty surrounding the pandemic continues to persist and recovery is expected to be a gradual process."

Meanwhile, Hyundai Motor India posted a 24 per cent growth in sales at 50,313 units against 40,705 units sold in the same month last year. Brands like Creta, Venue and Nios generated demand for the Korean brand.

Hyundai Motor India's director (sales, marketing and service) Tarun Garg said the green shoots were clearly visible with the



company's sales improving both on month-on-month and year-on-year basis.

Domestic sales of Tata Motors were marginally up by 13 per cent to 1,06,888 units from 94,454 units last year.

On the other hand, Kia Motors registered sales of 18,676 units, up 147 per cent, from 7,754 units sold in the same month last year. Incidentally, this is Kia's highest-ever monthly sales after the company entered the country a year ago.

Kia Motors (India) MD and CEO Kookhyun Shim emphasised that the Indian auto market was recovering at a better pace than expected and his company was progressing according to plan.

Meanwhile, the Goods and Services Tax (GST) collection touched its highest level so far this fiscal in September at Rs 95,480 crore as the unlocking of businesses lifts demand and factory activity.

The increase in collection comes ahead of the GST Council meeting on Monday (Oct. 5, 2020) where the issue of compensation to states and the borrowing options given by the Centre are likely to be debated. Also, the Comptroller and Auditor General's criticism of the Narendra Modi government for short crediting Rs 47,272 crore of compensation due to the states is expected to be raked up during the meeting.

A Union finance ministry statement said, "the gross GST revenue collected in September 2020 is Rs 95,480 crore of which central GST is Rs 17,741 crore, state GST is Rs 23,131 crore, integrated GST is Rs 47,484 crore (including Rs 22,442 crore collected on

import of goods) and cess is Rs 7,124 crore (including Rs 788 crore collected on imports)".

September revenues are four per cent higher than the total GST collection in the corresponding period last year.

This marginal increase in GST collections compared with the previous year is another indication that the economic recovery process has begun, as some large states have also reported increased collections of the GST. If the present trend continues, we can be hopeful of significant increases in the months to come.

There is also good news on the export front. Breaking out of the six-month long contraction period, the country's exports grew 5.27 per cent to \$27.4 billion in September.

**– Engineering Review**



## **Post-Covid world will witness a greater role of smart pumps**

The government on Friday announced the launch of a website for entities involved in research and development (R&D) in the coal sector.

The website, which has been designed and developed by Coal India subsidiary Central Mine Planning and Design Institute, was launched by Coal Secretary Anil Kumar Jain.

"The website will help in disseminating and promoting the knowledge and research work in the coal sector," Jain said.

The website broadly displays the guidelines for implementing coal research projects with various forms, so that anybody can submit proposals in requisite manner.

It also has lists and outcomes of complete projects and ongoing researches to have a transparency and avoid repetitive nature of projects.

It also showcases photos, videos and news clippings related to the coal and lignite sector, and various publications are also available on the website.

The website also contains identified thrust areas for future coal research keeping in view the future needs of the nation.

The coal ministry has been promoting R&D activities in coal and lignite sectors through its coal science and technology plan for improvement in production, productivity, safety and protection of environment and ecology, among others.

The coal ministry also provides funds to carry out research work on these subjects.

**– The Economic Times**

## Despite lockdown setback metal cutting industry is expected to grow

The metal cutting machine plays an important role in the efficient, high-precision, and effective manufacturing of defence and aerospace components and equipment such as composites, engine parts, ignitors, rotary blades, and turbines. The rising number of automation and efficiency initiatives to reduce overhead costs in aerospace and defence industries is likely to fuel the demand for metal cutting machines over the decade at the least. Unfortunately, the global outbreak of the COVID-19 pandemic has created a war-like situation across the globe. Authorities in several countries were forced to implement the lockdown measures which led to stopping most of the non-essential operations in their respective countries. The aforementioned measures halted the manufacturing activities; which is expected to have a negative impact on the demand for metal cutting machines, at least, in the short term.

Primarily, metal cutting machines are used in various application industries to cut different types of ferrous and non-ferrous metals for producing a finished product of desired geometry. The machines extend several advantages to the products, including surface texture or finish, closer dimensional accuracy, complex shaping, and required size.

The size of the international market of the metal cutting machine has been valued at \$6.17 billion in 2019 and is expected to grow at a compound annual growth rate (CAGR) of 5.9 per cent from 2020 to 2027. Rising demand for highly-efficient metal cutting machines from various application industries, including

automotive, aerospace and defence, electronics, and marine, is expected to be the key driving factor despite the Covid disruptions.

Rising investments in the defence and aerospace industries, coupled with the increasing demand for a wide range of consumer electronics on account of larger disposable incomes are expected to favour the market growth in the years to come. Rise in the demand for cutting edge technologies coupled with advancements in manufacturing processes are also anticipated to propel the market growth in the forthcoming years.

Incidentally, in India the metal cutting industry has been a crucial part of the machine working and fabrications sector that forms an important industrial segment after the automotive industry. The metal cutting industry in India consists of industries that are into manufacturing of components required for the SMEs and the bigger names in the sector that cater to the larger OEMs.

It goes without saying that the Covid-19 pandemic has negatively impacted all industries across the globe and the metal cutting industry is no exception. Cognitive Market Research has published a recent study which evaluates the impact of this crisis on the international metal cutting machines market as the global economy heads towards a major recession post 2009 crisis and suggests possible measures to counter it.

Metal cutting business is particularly defenceless as the greater part of its workforce has to work on location and is

impossible to function remotely. As a measure to protect the business from devastating repercussions, manufacturers must also create social distancing in workplaces that are typically worker-dense (e.g., manufacturing plants, warehouses, material movements and logistics, etc.). Moreover, manufacturers have to be prepared for major supply chain disruptions. This will influence the OEMs and affect manufacturers by driving down demand for materials and parts.

Practically, every manufacturing company is suffering from the ruthless Novel Coronavirus Disease. In order to arrest the spread of the pandemic, many countries around the world imposed a lockdown, restricting gatherings and movement of people.

A lockdown has several consequences, which further complicate the problems for various sectors like reverse migration, disruption of supply chains, manufacturing sector. As the governments have closed down shops, stores and malls to slow down the spread of the virus, it has also proved to be a major factor affecting the metal cutting industry.

The U.S. dominated the North American metal cutting machine market owing to the robust product demand from the defence and aerospace and automotive industries. Advancing technological innovations and the rise in military expenditure are likely to drive the market during the next few years. Leading defence and aerospace players in the country are employing additive manufacturing technology to design and produce complex components that reduce the weight of the aircraft.

However, the laser cutting machine offers several advantages, including high precision,



flexibility, speed, repeatability, and excellent quality. Among all the machines, the laser cutting machine accounted for 61.6 per cent of the global revenue share in 2019. Laser cutting machines are widely used to cut various ferrous and non-ferrous metals, thereby allowing fabricators to create high-quality structures.

The automobile sector leads the market and accounts for 26.1 per cent of the global revenue share in 2019 due to extensive usage of the machines in cutting a wide variety of interior and exterior components of automobiles, including passenger cars, SUVs, and others. Apart from automotive, metal cutting machines are also used in the production of various components of weather stripping to door panels and chassis.

Internationally, the Asia Pacific region dominated the market and accounted for 41.8 per cent share of the global revenue in 2019. On account of rapid industrialisation coupled with growing economic conditions, especially in the cases of India, China, and South Korea it is anticipated that the product demand in the region will move upwards. The Asia Pacific is expected to remain a hub for high-tech manufacturing, especially for automotive, defence and aerospace, and electronics industries, which is likely to fuel the regional market growth.

– **Machine Tools World**



## What customers look for in a machine shop

While it is a good idea to take note of the conversations and feedback that relates to your machine shop online, it is also necessary to be proactive about boosting your business' visibility in the digital age.

Catering to the needs of customers is important for any business, and it is especially sensible if you run a machine shop since the market is fiercely competitive. In order to help you exceed expectations with your efforts, here is a look at the assets that customers will be looking for in your operations.

### Modern equipment & software

Up-to-date machinery with the latest software solutions installed will not just be a good way to show customers that you mean business, but will also help you fulfil orders more efficiently.

Thankfully, you do not need to buy a brand new kit to achieve this, as the used machinery market is vibrant, as you can see from the options available on this page.

### Industry certification

Being certified by independent, recognized industry bodies can help to give customers confidence in the capabilities of your machine shop, even if they have never actually encountered your business before.

Achieving ISO 9001 certification, for example, will demonstrate that you meet certain standards for quality that can give customers peace of mind before they commit to a contract.

## Existing customer feedback

It has never been easier for would-be customers of a machine shop to find out what others think about a business. A quick online search will pull up comments posted to social media, as well as any official testimonials you might have acquired over time.

For this reason, you need to stay on top of managing your web-based presence to make sure your reputation remains untarnished. Furthermore, you can use the same techniques to keep up with what is being discussed in relation to competitors, potentially giving you new ways to capitalize on any complications they encounter in this context.

### Guaranteed delivery scheduling & order tracking

Many customers will appreciate the ability to know that when they place an order with a machine shop, it will be fulfilled within an agreed upon time frame, rather than potentially suffering from delays due to unforeseen supply chain disruption.

Likewise, customers can be kept in the loop with regards to the progress of their order through tracking software that shows the stages it has been through in real time. This can help to reduce the need to provide manual progress updates, saving you time while still ensuring customer satisfaction.

### Social media success

While it is a good idea to take note of the conversations and feedback that relates to your machine shop online, as mentioned earlier, it is also necessary to be proactive

about boosting your business' visibility in the digital age.

In addition to running accounts on sites like Facebook, Twitter and Instagram so that customers can see examples of your work with ease, you could even make use of video streaming platforms like YouTube to post content demonstrating your skills in an unambiguous and shareable way., Your website should also be the focus of your attention, as even with the growing influence of social platforms, it will still be the virtual storefront for your machine shop. It needs to be easy to use, contain all the information that a customer might need and also feature regular content updates to appease Google's search algorithms. Adding a blog is a simple way to achieve the latter.

So as you can see, your approach to winning new customers needs to be multifaceted and modern if you want your machine shop to succeed.

**– Machine Tools World**



## **The history of stainless steel began 1000 years earlier than we thought**

A new study by archaeologists Rahil Alipour, Thilo Rehren, and Marcos Martín-Torres has dated back a discovery that seemed consolidated: the origins of stainless steel are in Persia, nearly a millennium earlier than previously thought.

Official history has it that two English gentlemen, Woods and Clark, filed a patent in 1872 for a weatherproof and acid-resistant iron alloy containing 35% chromium. The invention and

industrialization of stainless steel are

inextricably linked to the name of Harry Brearley, a metallurgist also from England, who in 1913 created a steel with 12.8% chromium and 0.24% carbon.

No one knew that the Persians had already intentionally added chromium to steel 1000 years before the British - and anyone else - tried such experiments.

Archaeologists Alipour, Rehren, and Martín-Torres analyzed finds from the Chahak site in Iran from the 11th century BC, which show the intentional and regular addition of chromium mineral to the crucible charge, which resulted in steel containing about 1% by weight of chromium. Little, compared to the one currently used for the production of stainless steel, but enough to improve the resistance to oxidation and rust of the products.

The metal was used to make armor, tools, and weapons.

**– expometals.net**





## INDUSTRY SPEAK



**Siddharth Gupta**

Founder, CEO and Chief Product Developer  
SID07 Designs

These times have brought about a lot of financial hardship for all organizations, whether they are large corporates or industries, providing products or services. The only organizations, which have been least effected are the ones who either provided 'essential' products or services even before the lock-downs or the ones who were agile enough to adapt and use their resources to provide something 'essential' during this time. Some of these organizations have even financially thrived through this period. I strongly believe, there is one very important question that every organization needs to ask itself regularly in order to truly be prepared for an episode like this: is any part of our offered product or service absolutely 'essential' for humanity? If the answer is "yes", then you

organization shall be of use irrespective of the socio-economic barriers. If the answer is "no", then you should consider enhancing and simulating your organizational agility to adapt because you would have to, when a time like this comes again.



# NEW TECHNOLOGIES

## SID07 Designs

Some updates about what SID07 Designs has been up to in the recent times during the COVID-19 Pandemic:

- **Mask Buddy:** SID07 Designs came up with a unique, cost effective and subtly useful innovation, the Mask Buddy. Mask Buddy is a small plastic band that is reusable and sanitizable, that enables the wearer to wear an over loop face mask for long periods of time without the pain and discomfort behind the ears. This small innovation is especially relevant for our emergency workers who have been fighting it out for us and for our safety, since they have to work for long shifts and wear face masks for the entire duration of their work. This innovation brings some relief to their ears so that they can focus on their work without any unnecessary distraction or discomfort. The design for the mask Buddy was recently updated and it was further optimized to be even more cost effective and useful.

- **COVisor:** we came up with another innovation for our Corona-Warriors, we called it the COVisor. COVisor is a unique face shield that has a very durable and light weight frame and replaceable or swappable screens that make it way more cost effective and functional than most face shields in the market. It is reusable and cleanable- can be washed or sanitized using an alcohol-based sanitizer. Unlike other cheap faceshields on the market this does not have a foam-based

temple brace and hence it is not prone to absorbing or retaining contaminated particles and hence much safer and convenient to clean as well. COVisor was the 2nd product of our Hyper-Design Series of products, after the Mask Buddy. We take these products to market from prototype testing phase within 48 hours. Both these products are being used by doctors and other emergency workers in Jammu and other states and we have made them available to buy on our website. We are shipping them nationwide.

- **Drill Duster:** Our patented dust collection attachment for a drill machine, the Drill Duster™ was today available to buy from our website and amazon (India). It is a small, simple, efficient and ingenious solution to the problem of dust generated during drilling, especially when drilling indoors. It eliminates the need to clean up after drilling a hole on a masonry or wooden wall and works without the need of any motors or batteries. It's an indispensable small-sized big-impact add-on to the tool kit of any professional or DIY enthusiast looking to do home repairs, maintenance or improvements!



## Hind High Vacuum

HHV pioneered the development of high vacuum technology in India over 5 decades ago and is now a leading global vendor of equipment and systems involving high vacuum. Its products find application in a variety of high-tech industries. The wide variety of applications for which HHV's vacuum equipment is used include heat treatment, brazing, induction casting and melting, diffusion bonding of dissimilar metals, ARC re-melting, solution cum ageing, CVD/CVI, directional solidification, impregnation, metallization, deposition and solar module production.

### Vertical Vacuum Furnaces



### Horizontal Vacuum Furnaces



### Special Purpose Equipment





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- IMEX - for **Latest Machine Tools** (CNC, Laser, Shot Blasting, Measuring & Testing Equipment and more.....)
- UMEX – for **Economical Pre-owned machinery in the industry**
- World of Metal – for **Mineral, Metal, Metallurgy & Materials**
- TECHINDIA - for **Engineering and Manufacturing** (Pumps, Valves, Compressors and more.....)



## A Sneak Preview

- Expected Presence of **500+** leading Exhibitors from **15+** countries
- **4 Open Seminars**
  - > *Hand Tools, Power Tools & Fasteners Know-How*
  - > *Advancements In Cutting & Welding Equipment*
  - > *Machine Tools: Bringing Depth to Manufacturing in Industries*
  - > *Technology Innovation for Metal & Metallurgy Industries*
- Various New Launches by exhibitors.



## 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

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**3-5 SEPTEMBER 2021 at Bombay Exhibition Centre, Mumbai, India**

## SOME LEADING COMPANIES AT THE EVENTS

### Monotech Systems Limited



Additive manufacturing is increasingly being adopted by consumer brands who take advantage of improved

customization, lighter products, and faster product development. The especially consumer sector of additive manufacturing encompasses eyewear, footwear, sports equipment, jewelry, and fashion, among others.

While this sector grows, with more applications of additive manufacturing technology throughout so does the demand for talented professionals AND the demand for knowledge among those creative professionals looking to make their business happens with additive manufacturing

Monotech systems limited (3D Division) has been in the forefront for a decade with a commitment to establish a complete 3D print solution business across the Indian subcontinent leveraging our sophisticated technology and supply chain efficiency.

The core component of our business is the ability to support our customers across geographies with after-sales service, in association with Metamorph 3D prints and services, a team of fully equipped Engineers with the Right skill, specialized Engineering knowledge, with expertise in technical application and consulting

### Gardex India Pvt. Ltd.



Since the inception of Gardex in 1997, we have passionately believed in the constant

innovation of quality tools,

which have now shaped our company to be the largest tool Manufacturer from India and the 2nd largest manufacturer of striking tools and steel files in the world. Our use of Ideal Drop Press and Roll forging techniques is ranked as the best in the world. We at Gardex uphold high standards of values and ethics that reflect in everything we do, whether it is conducting periodic social audits for our Workers, the Environment or Laws. Over the years it's our passion for work that has led us to undertake constant product development and enhancement.



### Sid07 Designs



SID07 Designs (pronounced "sidseven designs") was founded on 22nd March 2018, by Siddarth Gupta in Jammu.

We develop novel solutions in the form of physical and tangible products to the problems faced by the masses. Till date we have made eleven inventions in the fields of automotive tooling, wearable technology for health and wellness, hydraulic pipes and fittings, dust extraction for power tools, plastic waste management and bio waste management and more recently personal protective equipment. One out of these inventions is patent pending and three are registered patents in India.





### **Midas Touch Metalloys Pvt. Ltd.**



We are leading manufacturer of Premium Quality Measuring Tapes and Hand tools under the brand name of SCOTT'S.

Imagination, Vision, Innovation, Quality and Service makes us different from others.

Team of highly experienced and dedicated workers allows us to serve for Cement, Adhesives, Plywood, Interior, Construction, Electric Automobiles & many other sectors

### **Hind High Vacuum**



As an innovative design, and manufacturing company, HHV builds state-of-the-art vacuum equipment with process know-

how and total automation facility. With its contributions, it has been acknowledged as the basic backbone in developing indigenous vacuum equipment by almost all major industries and research laboratories. HHV has gained the best acknowledgment for technical expertise and highly-skilled engineers and technologists in vacuum science and technology.

These over 5 decades of experience in innovative design and development of vacuum equipment has helped to make HHV the market leader in the vacuum heat treating industry. Whether your process can benefit from better heating and cooling control, precision case depth and uniformity, or flexible quenching options, there is a HHV furnace that will add value to your heat treating work.

Standard and custom furnaces are available for a wide range of batch and semi-continuous vacuum applications.

- Customized vacuum heat treatment solutions with Cutting edge technologies
- Wide range of vacuum furnaces with process support for different applications
- Proven track record on performance and delivery of special vacuum equipment
- Access to various experts in the globe for technology
- The best technical & service support after sales
- Wide area technical & service support network in India and abroad

### **Cotmac Electronics Pvt. Ltd.**



Cotmac Electronics Pvt. Ltd. is a respected name in industrial automation, providing customers with a wide range of

cost effective engineering services in the fields of plant intelligence and industrial automation.

As a part of the 125 year old illustrious Cotmac Group and its inception in 1992, from more than 25, CEPL has been providing automation solutions for factory and processes. With over 600 skilled and qualified engineers, strong domain knowledge of products and processes, 5 state of the art manufacturing plants, 13 branch offices in India and 3 overseas branches in Dubai, Singapore and United States Cotmac is a truly global system integrator that supports national and international businesses.

The company's knowledge and experience in factory and process automation help customers to improve productivity and scale up operations. Cotmac Offers automation solutions in various segments like

Factory Automation -Automotive, Paper and Printing & Material Handling.

Process Automation- Food & Beverage, Chemical & Pharmaceutical, Cement, Metal & Mining, Water treatment, Power & utility, Brewery & Distillery & Boiler automation.

Engineering And Software Services- Detail design engineering, Control software and SCADA development, Process optimization services, AutoCAD Engineering services and Field services.

Control Panels- MCC, PCC, AMF, PLC, DRIVE, MIMIC panels and Marshalling Cabinets.

Licensed partner Siepan 8PU Siemens.

Machine Retrofit- Recondition and converting old machines to CNC'S,

Vision systems and Robotics engineering- Vision systems ensure shipments are free from all defects, reduce waste through early detection of process errors, and reduce the quantity of scrapped components. robotics and intelligent material handling systems helps to optimize production to accurately match process speed and positioning.

Industrial Automation Products- Cotmac is an authorized distributor partner for Siemens automation, Siemens switchgear, Lapp Kabel, Omron, Phoenix Contact, Eplan, Cognex and Siemens process Instrumentation.



...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