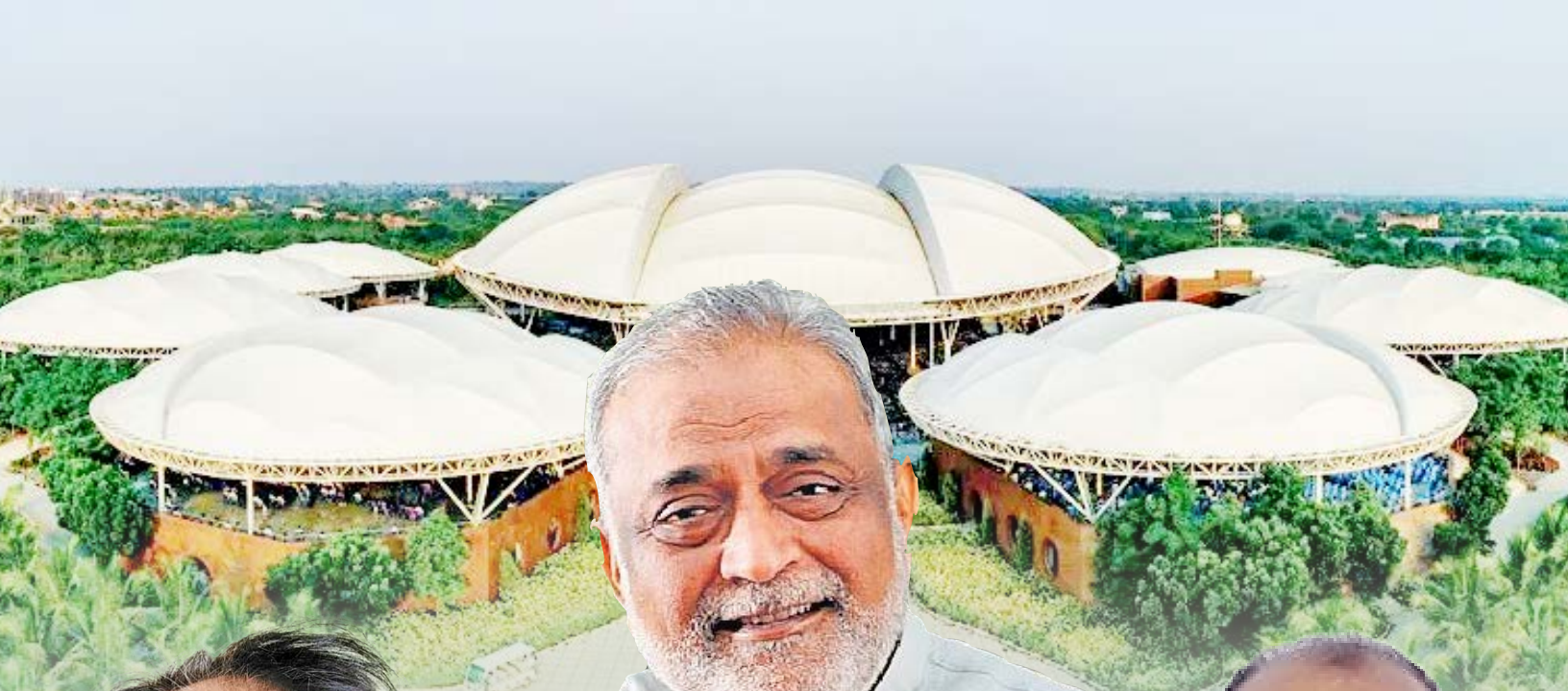


INAUGURAL ISSUE

Construction

Equipments Update

Volume 1 | Issue 1 | Sept-Oct 2023 | Price ₹200

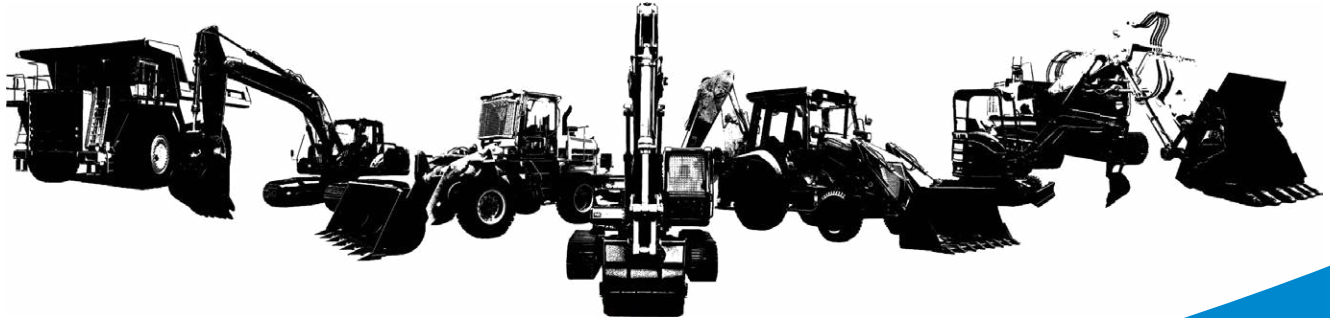


KANHA SHANTI VANAM (MODERN VILLAGE)

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MR. Vijay Kumar, C.E.O
Infrastructure Equipment Skill Council
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MR. S. Narsimha Reddy, President
Builders Association Of India
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IESC's vision is to create a sustainable industry aligned ecosystem for robust skill & entrepreneurship development in the Infrastructure Equipment Sector. IESC Job Roles, aligned to National Skill Qualification Framework (NSQF), cover a wide range of areas including equipment operations, maintenance & repair and supervision. Additional job roles in emerging areas of new Products and Technologies are constantly evaluated and actioned upon.

IESC Job roles cover the following

Operators

- ▶ Excavators
- ▶ Backhoe Loaders
- ▶ Wheel Loaders
- ▶ Compactors
- ▶ Concrete pumps
- ▶ Cranes
- ▶ Hot Mix Plants
- ▶ Batching Plants
- ▶ Transit and Self Loading Mixers
- ▶ Pavers
- ▶ Skid Steer Loaders
- ▶ Aerial Work Platforms

Technicians

- ▶ Engine
- ▶ Hydraulics
- ▶ Electrical, Electronics and Instrumentation

Supervisors

- ▶ Maintenance
- ▶ Plant and Machinery

Connect with us at standards@iescindia.com to explore partnerships in Skilling



**NUVOCO STRENGTHENS
PRESENCE IN PUNE & MUMBAI
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CE UPDATE

Villa No :105, Nakshatra Society, Siddanthi, Shamshabad,
Hyderabad, Telangana 501218
Subscription/ Circulation
Annual Subscription: 1200 INR – 6 Issues
For Advertising details contact
ceupdatemag@gmail.com

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CE Update is published by - B.Kartikeya Villa, No :105, Nakshatra Society,
Siddanthi, Shamshabad, Hyderabad, Telangana 501218



B. KARTIKEYA

Hello Readers,

It's our cloud9 Moment for all of us. Bharat is on swing with back to back Success which will be the beginning of new Era. From Charayaan-3, First country in the world to land in south pole of The Moon & Adithya L1 Success & G20 Summit with a huge applause. With this consistent amount of speed Bharat will become a prominent country to Invest in all arenas for other countries to look upto.

In this Inaugural edition, Interaction with Mr. S Narsimha Reddy president of Builders association of India says the current scenario seems to be quite favorable for the Industry & Primarily, he feels implementation of 'One Country and One Scheme', which should cover all such works where Public Money is involved including Public limited companies. Another Interview with MR. Vijay Kumar, C.E.O, Infrastructure Equipment Skill Council shares the challenges being faced by the Construction equipment sector is the high cost involved in training operators and mechanics, viz-a-viz other sectors, by virtue of the high Capex & Opex involved. Compensation of IESC's training cost therefore needs to be re-evaluated by the Government.

You should check out the Appointments section to learn about the most recent appointments in the sector. We constantly seek to bring up pertinent industry-related issues and call attention to crucial components of the construction & Equipment sector's expansion. Regular News update will be bonus for the readers to keep updated.

We will be keen to provide the latest happenings from the Construction & Equipment's Industry & Please don't hesitate to reach us in the advertorials, press releases and articles to publish in our magazine. We are here not only to make money but also to provide best services required to you. We will be interested for open communication to travel in a longer run with our clients.

With that, I bid you farewell for this month. We'll talk more when we meet in our next issue. God bless you till then, and keep safe.

Kartikeya



EXPERION CAPITAL INVESTS RS 200 CRORE IN THE GURUGRAM RESIDENTIAL PROJECT OF THE VATIKA GROUP

Experion Capital, an NBFC focused on real estate and infrastructure and funded by Experion Holdings in Singapore, has announced its first investment in India. According to The Economic Times, the company intends to invest Rs 200 crore in Gurugram's opulent "Sovereign Park" residential development by Vatika Group. Experion Capital's financial support and industry knowledge will help the Vatika Group project redefine luxury living in Gurugram. Sovereign Park is positioned to establish itself as a hallmark destination for discriminating home buyers looking for luxury and comfort thanks to its excellent location along the Dwarka Expressway and careful design.

IN MOHALI, THE LONG-AWAITED EWS HOUSING PROJECT HAS FINALLY STARTED.

The housing society project in Mohali that aims to give dwellings to the economically weaker segment (EWS) has finally started after nearly ten years of delays. The Greater Mohali Area Development Authority (GMADA) has made tremendous progress by hiring a consultant for the project. A public sector enterprise of the Government of India was recently chosen as the project management consultant (PMC) to guarantee effective project execution from beginning to end. The PMC will manage every aspect of the project, including creating an online application portal, analysing market demand, closely observing construction activities, guaranteeing high standards, and supervising the transfer of responsibility to the relevant Resident Welfare Associations (RWA).



INDIA'S STUDENT HOUSING MARKET WILL EXPAND RAPIDLY

Given the increased demand for high-quality student housing, a recent report by Colliers India shows that the student housing industry is becoming a sought-after asset class. Currently, about 11 million students relocate inside the nation; by 2036, that number is projected to reach 31 million. Even though thousands of students move to the big cities yearly to pursue higher education, the industry remained unorganized and uncontrolled until recently. The desire for high-quality student housing was sparked by the unsanitary conditions of college dorms and PG residences and rising rents around the nation, particularly in educational centres with heavy student traffic.



INDOSPACE AND KERRY INDEV LOGISTICS COLLABORATE

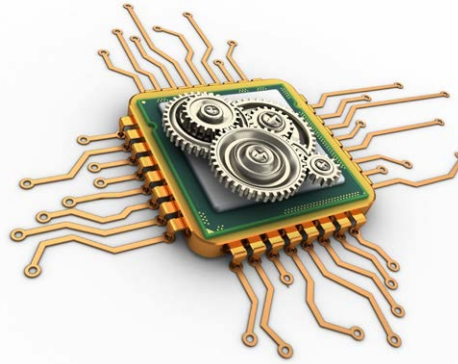
Kerry Indev Logistics, an integrated 3PL services provider in Sri City, recently leased 3 lakh square feet of warehouse space from IndoSpace, a developer and owner of Grade A industrial real estate and logistics parks. Kerry Indev's Chennai headquarters is in 59 countries and territories worldwide.

The building was constructed specifically to accommodate the air conditioning activities of Mitsubishi Electric India. Key OEMs from the automotive and electronics manufacturing industries are among the long-standing tenants of the 3PL logistics service, which has locations throughout India. The logistics park is located within Sri City's industrial environment, well-known for its advantageous location and top-notch infrastructure.



MICROCHIP TECHNOLOGY WILL COMMIT \$300 MILLION TO ITS EXPANSION IN INDIA

A new research and development (R&D) centre has been opened in Hyderabad, India, by Microchip Technology Inc., a market leader in microcontroller technologies. The business has also disclosed a significant \$300 million investment to develop its national activities over the following few years. The funding will go toward building new engineering laboratories,



recruiting talent, and supporting local technological consortiums and educational institutions. Additionally, Microchip will upgrade its current facilities, including R&D facilities in Bengaluru and Chennai and sales offices in Bangalore, Chennai, Hyderabad, Pune, and New Delhi. Microchip and other well-known American technology companies have increased their footprint in India.

METRONEO 2.0 IS BEING CONSIDERED BY NAVI MUMBAI



Navi Mumbai has become the fifth city in India and the third in Maharashtra to seriously study Metro Neo, a combination of metro rail and bus rapid transit. Except for the vehicle that ferries passengers, this cutting-edge technology has all the qualities of a metro rail. Instead of rail-based coaches, the system will be powered by bi-articulated buses with overhead equipment. Without rail rails, the system is comparable to the tram that previously ran across South Mumbai. The whole road will be elevated, with stations that resemble metro corridors. The CIDCO Board has approved the MetroNeo 2.0 modified form of transportation to replace the regular gauge Metro.

MUMBAI DATA CENTRE TO RECEIVE INVESTMENT FROM BROOKFIELD INFRA JV.

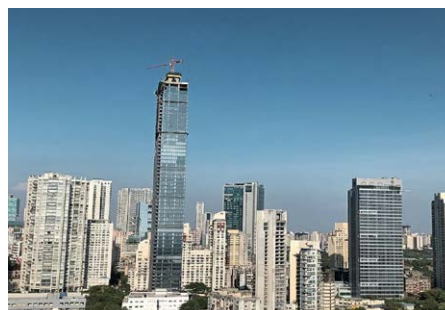


For about \$250 million, BAM Digital Realty, a partnership between Brookfield Infrastructure and Digital Realty, will build a data centre on a 2.15-acre plot of land in Chandivali, Mumbai. A 35 MW capacity for IT load will be available in the company's second data centre. Its first data centre, with a 20 MW IT load capacity, will open in Chennai towards the end of 2023. According to the business, the new location of BAM Digital Realty was picked for its client accessibility and strategic location inside the city. Additionally, it provided the qualities a connected facility needs to support the growing need for vital digital infrastructure in the area.

MUMBAI'S REAL ESTATE REGISTRATIONS FOR JULY 2023 WILL DECLINE BY 12% ANNUALLY AND 4% MONTHLY.

With 9,923 units registered in July 2023, Mumbai, India's largest real estate market, had a slight dip in property registrations. The government brought in Rs 808 crore in income in July 2023, a 6% fall from June 2023 and a 3% decrease from July 2022.

The western suburbs (55%), closely



followed by the central suburbs (38%), had the most significant number of new launches in Mumbai between April and June 2023. As connectivity has increased and commuting has become more comfortable, operationalising the second phase of two metro lines has boosted real estate activity in the western suburbs.

industry leaders in the real estate sector in India, Badal has accelerated the success of his clients to deliver some of the most successful real estate projects of impeccable quality," John Kenny, Colliers' Chief Executive Officer, Asia Pacific, said. "An exceptional



leader and real estate industry veteran, he has been credited with establishing robust cross-border teams while creating some of the most profitable businesses in India. We are excited to see him put his skills and experience to use, guiding our rapidly growing India business into its next phase."

Sankey Prasad, Chairman & Managing Director, India, added: "I welcome Badal to the Colliers team and look forward to collaborating with him to drive exceptional results for our clients and people. For close to three decades, he has been devising successful end-to-end real estate strategies for key corporate occupiers and developers. Badal has represented numerous corporations and professional service firms at local, regional, national, and international levels, successfully executing some of the most complex and marquee transactions in the industry.

"I am confident that Badal will drive stellar growth for the organization with his exceptional capabilities. He has a strong track record leading teams to deliver high value and supporting clients in achieving their business goals. With cutting-edge market expertise and remarkable strategic proficiencies, he will undoubtedly lead the industry into the future."

Colliers India has grown exponentially in the last four years and continues to be the fastest-growing real estate services firm in India, attracting top-quality talent and diversifying into emerging markets.

Badal Yagnik, Chief Executive Officer, Colliers India, added: "Colliers' growth in India has been remarkable, and in the past four years, the firm has transformed its business by building scale, expanding capabilities and strengthening client relationships and partnerships. This is an incredible time for the Indian real estate industry, as our country is poised to deliver higher growth to the global economy. Colliers is well-positioned to enhance its market leadership further and I am excited to be part of the firm's growth story. I look forward to collaborating with Sankey and the leadership team to unlock the company's significant potential for our clients, people, and other stakeholders."

Mindspace Business Parks REIT Appoints Ramesh Nair as CEO

Mindspace Business Parks REIT owner and developer of quality Grade A office portfolio announced the appointment of Ramesh Nair as Chief Executive Officer, with effect from September 1, 2023. Mindspace REIT also announced the elevation of Vinod Rohira from his role as CEO to Board Member of the REIT. This strategic move ensures stability and continuity of leadership, as Mindspace REIT embarks on its next phase of growth and expansion. In his new capacity, Vinod will also spearhead a larger role within the group as Managing Director and CEO – Commercial Real Estate, K Raheja Corp; along with a seat on the Board of the Residential Business – K Raheja Corp Homes.

Speaking on the appointment, Mr. Ramesh Nair said, "I am honoured to lead Mindspace REIT through its forthcoming growth phase. My experience in working with the management, as an external partner, has allowed me to witness a culture of collaboration and high potential, which I am excited to contribute to. The REIT exhibits strong potential for growth,



and I look forward to working with the Team to create enduring value for stakeholders. I express my gratitude to Vinod for establishing such a robust foundation for the business' future endeavours."

Speaking on his elevation, Mr. Vinod Rohira said, "It has been an absolute privilege to lead Mindspace REIT through the listing and witness its growth over the last 3 years.

As I transition into my new role, I welcome Ramesh and look forward to supporting the continued growth and success of the REIT along with the group businesses, from this new vantage point."

Mr. Neel Raheja, Board Member, Mindspace Business Parks REIT, said, "We welcome Ramesh as he takes on the role of CEO for Mindspace REIT. Our past collaborations with him have yielded highly favourable results, and we look forward to his adept management of the business. We are grateful to Vinod for his exceptional leadership and wish him the very best as he takes on a larger role as Board Member of the REIT and MD and CEO of the non-listed commercial portfolio. His guidance will play a pivotal role in fortifying and advancing our organization."

With over 25 years of experience across most facets of the real estate business, Ramesh has worked across diverse asset classes spanning office, land, retail, residential, warehousing, datacentres and hotels, guiding domestic and multinational owners, investors and occupiers across the entire real estate development cycle. He has a track record of producing

stable revenue and profit growth in dynamic and changing markets and building cross functional teams and capabilities.



Godrej & Boyce receives the CII GreenCo champion award for spearheading environmentally conscious production in India

Godrej & Boyce, the flagship company, of the Godrej Group has recently been awarded the prestigious GreenCo Champion Award by the Confederation of Indian Industry (CII) for spearheading the Green Co movement across industries in India. Padma Vibhushan Dr. R A Mashelkar, handed over this recognition to the Company. There were 3 more companies who have received this award along with G&B.

Three businesses, namely Godrej Appliances, Godrej Lawkim and Godrej Storage Solutions from Godrej & Boyce received 11 recognitions for their Green manufacturing practices. The Mohali and Shirwal plants of Godrej Appliances and the Godrej Lawkim Motors have been awarded the Platinum Plus certification and have additionally received the recognition for zero waste to landfill and water positivity. Godrej Storage Solutions has been awarded a GreenCo Silver certification.

Mr Zurvan Marolia, Sr. Vice President, Godrej & Boyce, said, "We are incredibly proud to be recognized by the eminent Confederation of Indian Industry (CII)-Green Business

Centre with the GreenCo Champion Award. This acknowledgement serves as an affirmation of the



persistent and conscious strides made by Godrej & Boyce towards adopting environmentally responsible manufacturing processes. Our philosophy of sustainability and responsibility is a core principle that has been deeply rooted in our organizational DNA from the outset. We stand steadfast in our belief that as conscientious manufacturers, it's our mandate to lead the charge towards sustainable manufacturing practices worldwide. Our GreenCo Platinum Plus ratings underscore our commitment to this cause, showcasing our dedicated efforts in driving responsible production and consumption." The Platinum Plus, which is the highest level of certification (World Class) offered by CII-GBC, evaluates a company's proficiency across several parameters including Energy Efficiency, Water Conservation, Renewable energy, GHG emission reduction, Waste material, Material conservation and Recycling & Recyclability, Green Supply Chain, Product Stewardship & Life Cycle Assessment, Green Infrastructure and Ecology, and Innovation for Environment. The rating system uses these parameters to evaluate the environmental footprint of companies and they are accordingly conferred the rating. With a strong commitment to reducing specific energy consumption. All upcoming G&B manufacturing facilities are designed on the principles of 'Green Buildings/

factories.

Hindware expands presence in South

The brand has launched two premier brand stores in Bengaluru, taking its store count in the city to 24. Hindware the sanitaryware brand has announced that it is broadening its footprint in the southern market by inaugurating two premier brand stores in Bengaluru. The launch of these new



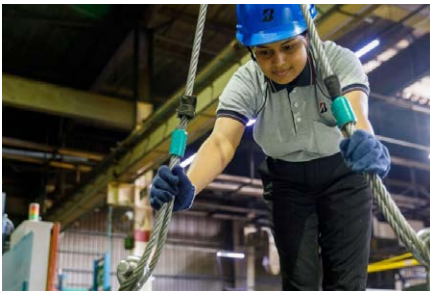
stores boost Hindware's retail presence in Bengaluru and brings the city's total to 24 outlets, with a total of 50 stores throughout Karnataka. "These recently opened showrooms are made to give customers an interactive experience, enabling them to engage and interact with our extensive product selection," says the company statement. Speaking on the launch, Sudhanshu Pokhriyal, CEO Bath and Tiles Business, Hindware Limited said, "Bengaluru city is known for its design appreciation and forward-thinking approach. We are excited to inaugurate our premier bathware and tiles stores in Bengaluru, marking a significant stride in our journey of expansion in the Southern India region. This strategic move reaffirms our commitment to bringing the best of innovation, design, and quality in bathroom and tiles segment closer to our customers." Inaugurating the stores, Shashvat Somany, Head of Strategy, Somany Impresa Group said "Bengaluru is an important market for us, and we see immense potential in this region.

These two stores are our commitment to the customers of this market, and we are set to introduce them to an unparalleled living and bathroom



experience. We will continue to invest in the market to cater to the rising demands of our customers." Hindware has 470+ immersive brand stores, over 34,000 active retail touchpoints, and a clientele of over 1,200 institutions.

Tata Projects secures ₹1446 cr tunneling contract for Chennai Metro Line-5



Tata Projects Ltd. (TPL) has secured the position of the lowest bidder for the civil construction of underground Package UG-06/RT-01 in Chennai Metro's Line-5. The package entails the construction of twin tunnels and 5 underground stations spanning approximately 5.8 km between Kolathur and Nathamuni. The contract for this package was retendered by Chennai Metro Rail Limited (CMRL) after the initial round saw only one bidder, Larsen & Toubro (L&T), with a bid significantly higher than CMRL's estimate. Following the cancellation of the tender, bids were

re-invited in December 2021 with an estimated value of Rs 1580 crore and a completion deadline of approximately 3.8 years.

In the new round, Tata Projects emerged as the lowest bidder with a bid of Rs 1445.98 crore, below CMRL's estimate. The contract includes the construction of underground stations at Kolathur, Villivakam Sub-urban Station, Srinivasa Nagar, Villivakam bus-terminus, and Nathamuni, along with other related works. With Tata's bid coming in below CMRL's estimate, the contract is expected to be awarded in the coming weeks without a lengthy financial bid evaluation period. This will mark Tata's third civil contract in Phase 2 of Chennai Metro, showcasing their strong involvement in the city's metro expansion. To execute the project efficiently, Tata will deploy at least 4 tunnel boring machines (TBMs).

Dalmia Bharat begins operations of 2.0MnT Cement Unit in Sattur, TN



Dalmia Bharat Limited (DBL), a prominent Indian cement leader, through its wholly owned subsidiary Dalmia Bharat Green Vision Limited (DBGVL), has officially initiated commercial production at its fresh Greenfield Cement Grinding facility located in Sattur, Tamil Nadu. This modern unit bolsters the company's total installed cement capacity by 2.0 million tons, bringing it to a substantial 43.7 million tons. With

an investment of Rs. 686 Crores, this newly established cement grinding unit will manufacture cement, utilizing the existing integrated plants in Tamil Nadu to meet clinker requirements. This strategic maneuver aligns with the company's broader objective to fortify its market presence in the Southern region and cater to the surging demand therein.

Dalmia Bharat's profound connection with the region finds its roots in its historic lineage, as the company's inaugural cement plant was founded in Dalmiapuram, laying its cornerstone in the industry. The state-of-the-art cement grinding unit incorporates cutting-edge environmentally friendly technology to minimize its carbon footprint. A 16 MW solar power capacity installation is presently underway, further bolstering its commitment to renewable energy. Equipped with advanced automation and digitalization systems, the plant ensures heightened operational efficiency and elevated safety protocols.

Commenting on the company's expansion plans, Puneet Dalmia, Managing Director, Dalmia Bharat Limited, said, "In the midst of a thriving real estate phase and continuous governmental emphasis on infrastructure, we are operating within a dynamic and robust demand scenario. The southern market is experiencing rapid growth, prompting us to enhance our capacity to effectively address the escalating need for cement in this region."

CASE strengthens dealer network in western India.

CASE Construction Equipment has appointed Bombay Infra as its new dealer partner in Thane. Bombay Infra assist with sales, service, and spares requirement for CASE India's customers. Along with Thane, the dealership will cater to nearby regions such as Mumbai, Raigad, Palghar,

Dalmia Cement (Bharat) Ltd. orders more vertical roller mills from Gebr. Pfeiffer



Dalmia Cement, India's fourth-largest cement manufacturer, is based in New Delhi and operates cement plants and separate cement grinding plants across India. Large cement manufacturers with multiple production sites often work with different grinding systems, as it's only through experience that real comparisons can be made. Although Dalmia Cement had previously used Pfeiffer MPS vertical roller mills for grinding raw meal, coal and cement, the company had also worked with other grinding systems. So Gebr. Pfeiffer India (a 100% subsidiary of Gebr. Pfeiffer, Germany) is absolutely delighted that Dalmia Cement has now decided to use Gebr. Pfeiffer vertical roller mills again. Dalmia Cement has ordered one MVR 3750 C-4 each for two cement grinding plants, one in Ariyalur and one in Kadapa. The mills will produce Ordinary Portland Cement and also fly ash cement at up to 160 t/h. The company is committed to sustainable cement production, and Gebr. Pfeiffer is playing its part by optimising the grinding process to reduce CO₂ emissions per tonne of cement by up to 35%. Further emissions reductions can be achieved indirectly, as less electricity is required for grinding plants with the state-of-the-art Pfeiffer MVR vertical roller mills than for the combi-grinding units commonly used elsewhere. This type of mill

also has the highest power density of all available vertical roller mills, which positively impacts the overall investment. Fresh fly ash, from power plants operated with fossil fuels, and stored fly ash from earlier times, known as pond ash, will be used as substitutes for the clinker. Pond ash is usually pit-wet, which makes the MVR vertical roller mill ideal as it doesn't just grind and classify the materials – it dries them too. As a result, only one machine and no intermediate transport systems are required. In addition to the MVR 3750 C-4 mill, equipped with a 3200 kW drive, and the integrated new-generation SLS 4000 VC high-efficiency classifier, Gebr. Pfeiffer (India) Pvt. Ltd is supplying almost all components for the two grinding plants. The order also includes plant design, coordination of project delivery and support in the form of monitoring during assembly and commissioning of the mills. The two grinding plants are due to be commissioned in early 2024.



Vibrant Energy signs a PPA with UltraTech Cement Limited

Vibrant Energy (Vibrant), a leading corporate renewable energy solutions provider, has concluded agreements for providing 21.60 MW of wind projects in Maharashtra. The project will deliver green power to Ultratech's multiple facilities in Maharashtra. Mr. Srinivasan Viswanathan, CEO, Vibrant Energy, said "We are excited to partner with Ultratech

and accelerate their green energy transition. This partnership marks a significant step towards a sustainable and carbon-neutral future. This will act as a catalyst for transforming not just the cement industry but other energy-intensive industries as well." The project is expected to generate about 72 million units of green power on an annual basis that would help Ultratech reduce its carbon footprint and achieve their sustainability targets.



Dalmia Bharat commences operations of Greenfield Cement Grinding Unit in Sattur, Tamil Nadu

Dalmia Bharat Limited (DBL), a leading Indian cement major under its wholly owned subsidiary Dalmia Bharat Green Vision Limited (DBGVL) announced the commencement of commercial production at its new Greenfield Cement Grinding unit in Sattur, Tamil Nadu. This new unit adds 2 million t of cement capacity to the company's overall installed capacity, bringing it to a total of 43.7 million t. With an investment of INR686 crores, the new cement grinding unit will produce cement, supported for the clinker requirements from the existing Integrated plants in Tamil Nadu. This strategic move is part of the company's plan to strengthen its market presence in the South and to cater to the growing demand in the region. Dalmia Bharat's strong

bond with the region is rooted in its legacy, as the company's first cement plant was established in Dalmiapuram, setting its foundation in the industry. The new cement grinding unit is equipped with the latest advancements in environmental-friendly technology for low carbon footprint. A 16 MW solar power capacity installation is in process to support its renewable energy initiative. With advanced automation and digitalisation systems, the plant ensures higher operational efficiency and enhanced safety measures. Commenting on the company's expansion plans, Mr. Puneet Dalmia, Managing Director, Dalmia Bharat Limited, said, "Amidst a robust real estate cycle and a sustained push by the Government on infrastructure, we find ourselves in a dynamic and strong demand environment. South is a fast-growing market and we are expanding our capacity to meet the rising cement demand in the region." Dalmia Bharat has long-term growth and investment strategy aimed at expanding its installed cement capacity to a substantial 110 – 130 million t by the year 2030-31. The company's growth approach includes a judicious combination of organic and inorganic opportunities, with a focus on a well-planned and cost-effective organic route.

Trina Solar announces mass production of Vertex N 700W+ series modules, leading industry into PV 7.0 era

Trina Solar, a leading global PV and smart energy total solution provider, announced its mass production of Vertex N 700W+ series modules, with module efficiency reaching 22.5% on August 18. It marks Trina Solar as the first module maker to mass produce TOPCon modules with



power exceeding 700W. According to Trina Solar, the industrialization capability of 210mm n-type modules will be comprehensively improved, and Vertex N modules will be continuously upgraded with 10-15W increase in power output in 2024. The Vertex N 700W+ series modules adopt n-type i-TOPCon Advanced technology that Trina Solar unveiled in May. The first n-type i-TOPCon cells rolled off the production line in Qinghai province in early August. Cell efficiency in mass production has now reached 25.8%. By the end of this year Trina Solar's cell capacity will reach 75GW, including 40GW of n-type cells, all of which are equipped with n-type i-TOPCon Advanced technology. Vertex N 700W+ series modules have passed a comprehensive range of tests by RETC. A UL Panfile test report found Trina Solar Vertex N modules perform better in terms of temperature coefficient and low-light environments compared with p-type modules. Simulations in three typical cities show that annual power generation of Vertex N modules can be increased by up to 3.96% compared with that of p-type modules.

Vertex N modules are also acclaimed by end customers. As a result, Trina Solar has accumulated rich delivery experience in large utility power plants. A photovoltaic power plant project of the seawater desalination plant in Jubail, Saudi Arabia, was

recently put into operation, Vertex N 700W+ series modules being used there. A 500MW photovoltaic power station project being built in Xinghai County, Qinghai province, also uses Vertex N 700W+ series modules. Trina Solar is keen for industrial chain partners to work together to accelerate mass production of n-type technology and high power modules to benefit end users. In the n-type era, Trina Solar is leading the industry with n-type i-TOPCon Advanced technology, the all-round upgraded scenario-based Vertex N portfolio and integrated solutions.

Tata Power Renewable Energy Limited (TPREL) joins hands with Sanyo Special Steel Manufacturing India



Tata Power Renewable Energy Limited, a leading player in the renewable energy sector through its subsidiary TP Alpha Limited (Special Purpose Vehicle – "SPV") signed a Power Delivery Agreement ("PDA") with Sanyo Special Steel Manufacturing India Pvt. Ltd. for a Captive Solar Plant having capacity of 28.125 MW (AC) (i.e. 39.375 MWp DC) which is located in Aachegaon, Dist. – Solapur, Maharashtra. The solar plant is projected to produce an annual electricity of 61.875 Million Units ("MUs") which would meet the energy requirement of steel manufacturing unit of SSMI. The overall capacity of the Aachegaon facility is 120 MWp AC. The project will be commissioned by March 2024 as per the arrangement.



This Solar Power will meet SSMI's green power requirements and contribute towards United Nations Sustainable Development Goals. The use of solar energy from this installation will help to reduce SSMI's carbon footprint by ~42,534 tonnes annually (reduction of carbon dioxide (CO2) emissions by ~42,534 tonnes annually). This project aligns with SSMI long term strategy towards climate change by reducing dependency on fossil fuel-based energy, lower the carbon footprint and manufacture Green Steel. The project is in line with the objectives of the National Green Energy policy, emphasizing India's commitment to fostering a clean energy ecosystem.

Speaking on the partnership, Mr. Ashish Khanna, CEO of Tata Power Renewable Energy Limited, stated, "Our partnership with Sanyo Special Steel Manufacturing India Pvt. Ltd. reflects our joint dedication to drive sustainable practices in the steel industry. These initiatives yield advantages like cost reduction, lower emissions, enhanced energy security, and alignment with sustainability targets. The government's prioritization of captive power projects, driven by their economic and environmental merits, highlights their significance for various industries." Mr. Dilipkumar Pachpande, Managing Director of Sanyo Special Steel Manufacturing India Pvt.

Ltd., added. "We are pleased to join hands with TP Alpha Limited ("SPV") a subsidiary of Tata Power Renewable Energy Limited to secure significant portion of our power requirement through renewable sources which is align with our sustainability vision. This collaboration perfectly describes our commitment towards the clean and green energy solutions, which not only aligns with our goals towards climate change and sustainable development but also significantly benefits the steel manufacturing unit by reducing CO2 emissions and costs, enhancing sustainability, and contributing to carbon neutral goals by producing "Green Steel". We are proud that together we are making a positive impact towards sustainable development. This is a significant step towards our long-term strategy towards sustainable development. We look forward to make the most of this association and fetch maximum benefit for environment as well as for all our stakeholders.

Nuvoco strengthens presence in Pune & Mumbai with two new ready-mix concrete plants



Nuvoco Vistas Corp. Ltd., India's fifth-largest cement group in terms of capacity and among the leading

players in East India, is delighted to announce its expansion in the construction booming markets of Mumbai and Pune. The company has inaugurated two new RMX Plants in Kharadi (Pune-II) and Kandivali (Mumbai) as part of its ongoing efforts to expand its Pan-India footprint. This underscores Nuvoco's commitment to meet these regions' increasing demands for construction materials. The Kharadi (Pune-II) plant caters to the Pune region's thriving construction market. As a key city in Maharashtra, Pune presents Nuvoco with tremendous opportunities for growth. This plant is strategically located to serve areas such as Kharadi, Hadapsar, Wagholi, Manjari, Nagori and Keshavnagar. Furthermore, the Kandivali Plant in Mumbai is easily accessible from the Western Express Highway and will contribute significantly to ongoing residential and commercial projects within a 15-20 kms radius. Prashant Jha, Chief of the Ready-Mix Concrete and Modern Building Materials business at Nuvoco Vistas expressed his excitement about the expansions, stating, "The expansion of our Ready-Mix Concrete business in Maharashtra will play a key role in our overarching business strategy. This will enable us to tap into high-potential markets and strengthen our commitment to providing innovative solutions to our customers. With our proven formula of quality, innovation, and customer satisfaction, Nuvoco solidifies its position to be a Leading Building Materials Company Delivering Superior Performance." Nuvoco Vistas stays confident in leveraging Mumbai's significant infrastructure transformation and Pune's impressive expansion in the construction domain. With these expansions, the company continues its vision of Building a Safer, Smarter, and Sustainable World while catering to the evolving needs of its customers.

Brookfield Asset Management Signs MoU with Reliance Industries for Onshore Renewable Power and Decarbonization Equipment Manufacturing in Australia



Brookfield Asset Management has signed a Memorandum of Understanding (MoU) with Reliance Industries, to explore opportunities to manufacture renewable energy and decarbonization equipment in Australia. The MoU aims to both accelerate and de-risk Australia's energy transition by enabling it to locally produce clean energy equipment such as PV modules, long duration battery storage and components for wind energy. Under the terms of the MoU, Brookfield will work with Reliance to explore avenues of direct capital investment and development of skills, knowledge and expertise in the renewable energy sector of Australia to facilitate the nation's transition to a net zero future.

Reliance and Brookfield will evaluate the establishment of advanced operations in Australia to make/or assemble equipment used in the construction of renewable energy projects supplying equipment to all players in the market including Origin Energy Markets. Reliance has strong expertise in solar panel technology and long duration battery storage technology. It is currently in the process of setting up one of the world's large integrated renewable energy manufacturing

facilities in India.

The MoU with Reliance is one of the key initiatives being undertaken by Brookfield to bring global manufacturing technology and expertise to Australia. In March this year, it signed a binding agreement with EIG to acquire Origin Energy. The proposed acquisition is currently going through the relevant approvals processes.

As part of its proposed acquisition of the Origin Energy Markets division, Brookfield along with its institutional partners and global institutional investors GIC and Temasek have set out a plan to invest between AUD 20 billion and AUD 30 billion over the next ten years to accelerate its energy transition. The MoU with Reliance intends to support this investment to ensure consistent and adequate supply of the clean energy equipment required to develop up to 14 GW of new, large-scale generation and storage capacity in Australia. Independent analysis undertaken for Brookfield indicates the establishment of onshore sovereign manufacturing capability for the energy transition has the potential to create approximately 18,000 direct and indirect jobs, many in regions most impacted by the transition such as the Hunter Valley in New South Wales and the La Trobe Valley in Victoria.

GAIL, LanzaTech Enter Strategic Partnership to Explore Biorecycling Carbon Waste into Fuels and Chemicals

GAIL (India) Limited, India's largest natural gas company and LanzaTech Global, Inc—an innovative carbon capture and utilization ("CCU") company that converts waste carbon into products that people use in their daily lives—have entered a partnership to explore innovative technology solutions that advance



GAIL's Net Zero 2040 goals and have the potential to support wider decarbonization applications globally.

GAIL and LanzaTech will explore setting up a pilot scale CO2 capture and conversion project that has the potential to be a role model for converting CO2 into useful materials instead of emitting it to the atmosphere. Combining LanzaTech's carbon capture and utilization technology with GAIL's renewable H2 and CO2 gas streams, the project will enable resource utilization where the building blocks of everyday consumer goods, from fuels to packaging and clothing, can be made from biorecycled material instead of virgin fossil fuel.

"The possibilities coming out of this collaboration with LanzaTech are very promising and significant to improving our carbon footprint," said Sandeep Kumar Gupta, Chairman and Managing Director of GAIL. "Using LanzaTech's cutting-edge technology will enhance our environmental stewardship and open up new avenues for driving sustainability across our operations."

"Waste CO2 can be used to make the things we need," said Dr. Jennifer Holmgren, LanzaTech's CEO and Board Member of the US-India Strategic Partnership. "By combining LanzaTech's expertise in carbon recycling with GAIL's commitment to reducing emissions and implementing renewable projects, this project has the potential to turn CO2 from an environmental liability to a value added product. CO2 can be the raw material of the future, enabling fossil carbon to stay underground. We look forward to launching our

collaboration with GAIL to make this vision a reality."

BHEL successfully synchronises 660 MW unit of Maitree Super Thermal Power Project in Bangladesh



Bharat Heavy Electricals Limited (BHEL) has achieved a major milestone with the successful synchronisation of the 660 MW Unit-2 of the 1,320 MW Maitree Super Thermal Power Project (STPP) in Bangladesh. The synchronisation of the unit has been done ahead of the commitment given at a high level G2G meeting, which was a very tough target even at the time it was given.

The 2x660 Maitree STPP is located at Rampal, Mongla, Bagerhat, Bangladesh, and is being set up by BHEL for the Bangladesh-India Friendship Power Company (BIFPCL), a 50:50 joint venture between the Bangladesh Power Development Board (BPDB) and NTPC Limited.

The project is a symbol of successful cooperation between India and Bangladesh and is a priority infrastructure development project for Bangladesh aimed at establishing reliable, cost-effective, base-load power production in the country.

The project uses state-of-the-art ultra supercritical technology for lower emissions and a number of further steps have been taken to mitigate environmental impacts including installation and compulsory usage of flue gas

desulphurisation system to control SO_x emission, installation of the tallest chimney in Bangladesh (275 mtr) for wider dispersion of emissions; electrostatic precipitator of efficiency above 99% to control ash particulate matter; covered coal shed and pipe conveyors to avoid coal particle pollution; closed cycle cooling water system and zero liquid discharge to minimise water consumption, among others.

VE Commercial Vehicles Inks MoU with IIT Indore for Tech Development



VE Commercial Vehicles (VECV) has signed a Memorandum of Understanding (MoU) with IIT Indore (IITI) for a period of five years. This partnership will facilitate the exchange of scientific information between VECV and IIT Indore and shall open channels for the development of competencies required for the rapidly modernising auto and its future talent.

This partnership will also facilitate VECV employees to acquire MTech, MS(R) and Ph.D. degrees from IIT Indore. The MoU was signed by Prof. Suhas S. Joshi, Director, IIT Indore and Rajinder Singh Sachdeva, Chief Operating Officer, VE Commercial Vehicles.

As part of the MTech program, VECV employees will be required to pursue online coursework in the first year. Project work in the second year will be conducted either at VECV's

Pithampur and Bhopal Plants or at IIT Indore under the guidance of the assigned thesis supervisor(s) of IIT Indore.

Such partnerships between corporates and academic institutions have the potential to produce cutting-edge technology that is affordable and can support the Make in India effort. They also have the potential of making Indore, one of India's leading centres of research and development.

Siemens consortium to equip Mumbai Metro Line 2B with state-of-the-art electrification technologies



Siemens Limited, as part of a consortium along with Rail Vikas Nigam Limited (RVNL), has secured an order from Mumbai Metropolitan Region Development Authority (MMRDA) for electrification of Mumbai Metro Line 2B. Siemens Limited's share as part of the consortium is Rs. 228 crore and RVNL's share is Rs. 149 crore. Siemens Limited will manufacture, install and commission rail electrification solutions and Supervisory Control and Data Acquisition (SCADA) systems, covering 20 stations and one depot. RVNL will be commissioning Receiving Substations (RSS) solutions.

Gunjan Vakharia, Head of Mobility Business, Siemens Limited, said, "We are delighted to partner MMRDA in electrifying Mumbai Metro Line 2B with state-of-the-art technologies. The development

of Mumbai Metro Line 2B project will play a key role in enhancing transportation infrastructure in the city. Mass transit solution is crucial for sustainable development of cities like Mumbai which will address the needs of both passengers and rail operators. We thank MMRDA for bestowing Siemens with this prestigious project."

Technip Energies Collaborates With IIT Madras to Become a Founding Member of the Energy Consortium



The Indian Institute of Technology Madras (IIT Madras) and Technip Energies, the world's premier engineering and Technology Company for the energy transition, have partnered to investigate prospects within several energy research disciplines. This research partnership will investigate groundbreaking ideas that can help not only India but the entire globe create a sustainable and low-carbon future.

The MoU was signed by Davendra Kumar, Managing Director of Technip Energies India, and Prof. Manu Santhanam, Dean (Industrial Consultancy & Sponsored Research) in a ceremony held at IIT Madras, in the presence of Wei Cai, Chief Technology Officer of Technip Energies.

Through this agreement, Technip Energies will further its strategic goal of quickening the development of innovative technologies to address the urgent demands of an

energy market that is expanding quickly and is motivated by sustainability concerns.

"We think that the power of collaboration will spur innovation and address the pressing global challenges in the energy sector as part of Technip Energies' ambition to achieve Net-Zero. To create new solutions in the energy sector through a collaborative research strategy, we partnered with The Energy Consortium at IIT Madras," said Davendra Kumar, Managing Director, Technip Energies India. IIT Madras launched the inspirational Energy Consortium to encourage business, academic, and governmental cooperation in speeding the development of technologies essential for the shift to a sustainable, low-carbon future. Dr. Nikhil Tambe, CEO – Energy Consortium, IIT Madras, emphasized, "Faculty members who are involved with the Energy Consortium are working together to advance research in fields with broad national significance, such as carbon collection and utilisation and achieving continuous renewable energy. The energy consortium has the drive to move on with an unparalleled effort of coordinated efforts in India's energy grand challenge sectors, along with our industry's founding member Technip Energies."

Nuvoco Launches InstaMix Superior Column Concrete

Nuvoco Vistas Corp. Ltd., India's fifth-largest cement group in terms of capacity, introduces the revolutionary product, InstaMix Superior Column Concrete, at a customer meet held in Ludhiana. This specialized concrete solution is meticulously designed for column construction, aiming to address the persistent challenges faced by developers and contractors.



Traditionally, column construction has been plagued by problems stemming from delays in pouring concrete, resulting in undesirable honeycombing, and weakened structural integrity necessitating extensive repairs. However, with InstaMix Superior Column Concrete, these concerns are now a thing of the past. The product's unique formula provides an extended workability duration of up to four hours, effectively clearing the challenges faced during column construction.

InstaMix Superior Column Concrete provides a remarkable advantage of early de-shuttering of cast columns. Unlike Ordinary Portland Cement (OPC) concrete with standard mix design, which often demands 7 to 14 days for de-shuttering of cast columns, InstaMix paves the way for early de-shuttering within just 12 to 16 hours, attaining a strength of up to 6MPa, depending on weather conditions. This ensures ease of pouring and sets a new standard for efficiency during construction. Speaking about the product, Mr Prashant Jha, Chief of Ready-Mix Concrete and Modern Building Materials Business at Nuvoco, said, "At Nuvoco, quality and customer experience are at the centre stage of our business operations. InstaMix Superior Column Concrete belongs to the renowned InstaMix brand, known for delivering exceptional performance and quality, making it the preferred choice of customers. Furthermore, the ready-to-use concrete and mortar are thoughtfully delivered in 35 kg bags directly to the job site. This benefits the end-user with the convenience of handling, minimal wastage, and faster application."



NHAI REDESIGNATES THE VARANASI-KOLKATA EXPRESSWAY AS NH319B.

The upcoming six-lane Greenfield expressway that will connect Varanasi to Kolkata has been given the National Highways Authority of India (NHAI) designation of NH319B, according to a recent statement made by a road construction department (RCD) official on Sunday.

This 610 km long highway would pass through four districts in each of Bihar and Jharkhand before entering West Bengal through the Purulia district, according to an official NHAI announcement confirming the designation NH319B. The process of acquiring land would be sped up, according to the RCD engineer, after the expressway has its distinguishing character as NH319B.

THE EXPANSION OF ITS SUPPLY CHAIN IS BOOSTING INDIA'S ECONOMY, THANKS TO GATISHAKTI

At the national conference on "Gati Shakti-Boosting connectivity for New India: Logistics - Warehousing - Supply Chain" organised by ASSOCHAM, Som Parkash, Union Minister of State for Commerce & Industry, stated that PM GatiShakti aims to develop a well-developed logistics and supply chain network, which will enable goods to flow seamlessly across borders and increase access to global markets.

By providing a data-driven decision support mechanism for a productive logistics ecosystem, the policy seeks to lower the cost of logistics, raise India's standing in the Logistics Performance Index, and enhance logistics performance overall.

THYSSENKRUPP INDUSTRIES INDIA AND VALMET COLLABORATE FOR IIOT 4.0 INDUSTRIAL AUTOMATION OFFERINGS



Valmet and thyssenkrupp Industries India Private Ltd. have signed a cooperation agreement to sell and distribute process automation systems for energy sector and various Industrial segments in India and other countries. This collaboration will primarily focus on projects billed through thyssenkrupp Industries India, and in first phase will be effective for a period of eight years.

The aim of the agreement is to increase competitiveness of both companies by introducing new and highly effective project delivery concept. It will enable Valmet and thyssenkrupp Industries India to deliver a future-proof control and automation solutions to meet customer demand. This partnership reinforces Valmet's position as the leading automation vendor in India's power sector while also opening up new technology potential in the country.

"We are very happy to offer to our customers a control system that will work seamlessly with our equipment. We are delighted to be able to offer this in collaboration with Valmet who are a proven technology leader in this field. This is in keeping with our strategy to enhance the automation and digital quotient of the products we bring into the market," says Vivek Bhatia, Managing Director & CEO, thyssenkrupp Industries India.

"Through this technology partnership, we aim to deliver long-term customer value through exceptional benefits leading to operational efficiency," says Abhay Patil, Director - Energy Division, thyssenkrupp Industries India.

"ThyssenKrupp's and Valmet's offerings complement each other, and with this cooperation we will be able to offer unbeatable value for the end customers. This agreement is an important step for Valmet's Automation Systems to further increase our market share in India," says Pekko Luumi, Automation Partner Business Director, Energy and Process Systems, Automation Systems business line, Valmet.

"Valmet is aiming at increasing the footprint in energy sector through various technologies and partnerships. The strategic agreement with thyssenkrupp Industries India will strengthen Valmet's Automation business in India & other countries and help differentiating as compared to traditional players for automation solutions. This is a beginning step and we look forward to further expanding this partnership in other complementing areas," says Varun Jain, Director, India Region, Asia Pacific, Valmet.

RHI MAGNESITA EXPANDS GLOBAL NETWORK: COMPLETION OF ACQUISITION OF SEVEN REFRACTORIES



RHI Magnesita announces the completion of the acquisition of Seven Refractories, which has been formally closed on July 17, 2023. Seven Refractories is a specialist supplier of alumina refractory mixes, serving customers in the iron and steel, cement, aluminium and non-ferrous metals industries, with a proven track record of consistent growth in these sectors. Alumina refractory mixes are expected to become increasingly important in the development of new low CO₂ emitting manufacturing technologies within RHI Magnesita's key customer industries. With the acquisition, around 240 employees at three production sites in Slovenia, India and the US and at sales offices and service centres in Germany, Italy, the United Kingdom and Cyprus, are joining RHI Magnesita's global network. The acquired businesses of Seven Refractories recorded revenues of €105 million and profit before tax of €11.4 million in 2022.

On July 20, Stefan Borgas, Chief Executive Officer RHI Magnesita and Erik Zobec, Chief Executive Officer Seven Refractories, sealed the acquisition in an official ceremony at the Seven Refractories plant in Divaca, Slovenia, in the presence of the employees of Seven Refractories.

Commenting on the acquisition, Stefan Borgas said: "Today we celebrate a milestone as RHI Magnesita completes the acquisition of Seven Refractories. The synergy of our expertise, innovation, and unwavering commitment to sustainability will empower us to deliver even more compelling solutions to meet the evolving needs of our customers. I am pleased to welcome the exceptional team from Seven Refractories to RHI Magnesita. With our collective knowledge and passion, we will develop advanced sustainability offerings and leverage cross-selling opportunities and supply chain optimisation potentials to set new benchmarks in the refractory industry as we continue to execute our strategy of growth through consolidation."

Erik Zobec added: "It is with great pride that we are joining RHI Magnesita. Only 12 years after the company was founded, this step is a strong confirmation of our achievements: our innovative product portfolio, our cutting-edge production technology, and our dedication to customer service. In addition, the global presence and capabilities of RHI Magnesita will enable us to provide an even larger product portfolio and enhanced services to our customers."

NUVOCO LAUNCHES INSTAMIX SUPERIOR COLUMN CONCRETE

Nuvoco Vistas Corp. Ltd., India's fifth-largest cement group in terms of capacity, introduces the revolutionary product, InstaMix Superior Column Concrete, at a customer meet held in Ludhiana. This specialized concrete solution is meticulously designed for column construction, aiming to address the persistent challenges faced by developers and contractors.

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With the introduction of InstaMix Superior Column Concrete, Nuvoco continues to lead the industry by providing innovative solutions that streamline construction processes and enhance overall project efficiency. Contractors and developers across the country can now experience hassle-free column construction with this revolutionary concrete solution.

AMBUJA CEMENTS EMPOWERS THE DIFFERENTLY-ABLED COMMUNITY IN INDIA

Ambuja Cements, the cement and building material company of diversified Adani Group, is proud to announce a momentous achievement by a student of Ambuja Manovikas Kendra (AMK), Priya Devi who secured a silver medal at the World Summer Special Olympics. Ambuja is committed towards empowering differently-abled individuals through AMK providing opportunities and tailored support while also recognizing the unique challenges they face. The Company actively supports initiatives that promote their well-being and overall quality of life.

AMK has established itself as a pioneering institution renowned for its provision of special education and unwavering support for differently-abled children. Guided by a steadfast commitment to nurture unique talent and abilities of its students, the Institution diligently works towards creating an inclusive environment where every individual can focus towards realizing their full potential.

The Company is proud to share that Priya Devi, a remarkable student has represented India at the World Special Olympics held in Berlin, Germany recently and won the prestigious silver medal as part of the Indian Basketball Team. Priya extraordinary performance played a pivotal role as part of the team securing a runner-up position in the



highly competitive tournament, which has further enhanced AMKs reputation for nurturing exceptional individuals.

Mr. Ajay Kapur, CEO, Cement Business, said, "We are immensely proud of Priya Devi's brilliant performance at the World Special Olympics. Ambuja Cements applauds her unwavering dedication, diligent efforts, and exuberant passion. This highlights the exceptional talent within Ambuja Manovikas Kendra and emphasizes the profound impact of the sports programs offered by the institution to foster personal growth and empowerment. This 10th Olympic medal by an AMK athlete highlights the C's initiative to empower differently-abled individuals.

The unwavering commitment of Ambuja Cements under its CSR initiative persists in bringing about significant transformations that contribute to the betterment of the society. The success of AMK stands as a testimony of the resilient spirit and unwavering determination of differently-abled individuals, thus driving a positive change in the society.

DALMIA BHARAT LIMITED - Q1 HIGHLIGHTS

Dalmia Bharat Limited, a leading cement manufacturing company, reported its consolidated financial results for the quarter ending June 30, 2023.

- Volume increased 12.4% YoY to 7.0 million t
- Revenue increased 9.8% YoY to Rs. 36.24 million
- EBITDA/T stood at Rs. 872/t
- Installed capacity increased to 41.7 MnTPA
- One of Lowest Carbon footprint in global cement world at 462 kgCO₂/T of Cement
- Renewable Energy capacity increased to 170 MW



- Net Debt/EBITDA stood at 0.52x
- Highlights for the Quarter ended June 30, 2023
- Commenting on the quarter gone by, Mr. Puneet Dalmia, Managing Director & CEO – Dalmia Bharat Limited, said, "We are in midst of a strong demand environment on the back of a sustained push by the Government on infrastructure and a robust real estate cycle already kicking in. Though we have strong conviction in our ability

to outperform the industry, this quarter has been a disappointment as against our expectations. Having said so, we remain focused on seizing the emerging demand opportunities, sustaining our position as a cost leader and delivering sustainable return to our stakeholders."

Mr. Mahendra Singhi, Managing Director and CEO – Dalmia Cement (Bharat) Limited said, "During the quarter gone by, we delivered a 12%YoY growth in cement volumes and witnessed further softening of fuel prices. Given the promising outlook for cement demand, expectation of stable cement prices during rest of the year and softening in commodity costs, we anticipate a gradual improvement in profitability."

LEADIT AND GCCA LAUNCH GREEN CEMENT TECHNOLOGY TRACKER

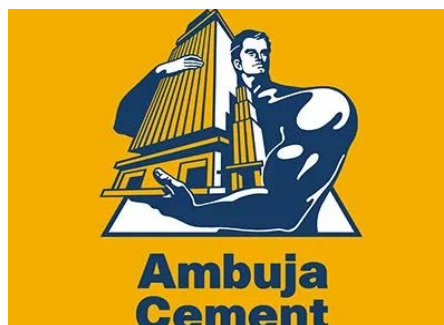
The Leadership Group for Industry Transition (LeadIT) and the Global Cement and Concrete Association (GCCA) have launched a new tracker, to help policymakers, industry experts, academics and the public monitor worldwide decarbonization efforts in the cement industry. Cement and concrete are vital to the built environment, used for homes, infrastructure and to provide things like clean running water. But the sector also accounts for 7% of global CO₂ emissions. With the launch of the GCCA's Concrete Future 2050 Net Zero Roadmap, it became the first heavy industry to set out a clear plan on how to decarbonize. Per Andersson, Head of the Secretariat – LeadIT said: "In order to empower the industry and policymakers committed to emission reductions, our goal is to provide comprehensive tracking of public announcements of investments in low-carbon cement technologies." The Green Cement Technology Tracker currently includes Carbon Capture and Storage (CCS) and Carbon Capture Utilization and Storage (CCUS), accounting for 36% of planned reduction levers in the GCCA 2050 Roadmap for Net Zero Carbon Concrete that leading manufacturers have committed to. Future steps to enhance the tracker include expanding its scope to cover more technologies that reduce emissions from cement manufacturing. Thomas Guillot, Chief Executive of the GCCA said: "Unleashing technology



such as CCUS is key to achieving our net zero mission in our sector. Carbon capture pilots, projects and announcements are picking up pace across the world. This technology works, and our next goal is to scale up, working with stakeholders such as governments and the investment community to help transform the industry worldwide." The Tracker will be instrumental in assessing progress and ensuring transparency of low-carbon cement technologies, initially carbon capture and, in the future, complementary efforts to reduce emissions from cement manufacturing. Preliminary data from the Green Cement Technology Tracker reveals that initiatives for carbon capture technologies are underway worldwide, predominantly in Europe, followed by Asia, North and South America, and Australia. Full-scale operational carbon capture plants are expected to come on stream in the coming years. Approximately half of the announced CCS and CCUS projects disclose their expected capture volumes. Post-combustion capture technology is currently the most common investment.

AMBUJA CEMENTS ACQUIRES SANGHI INDUSTRIES AT AN ENTERPRISE VALUE OF RS 5,000 CR

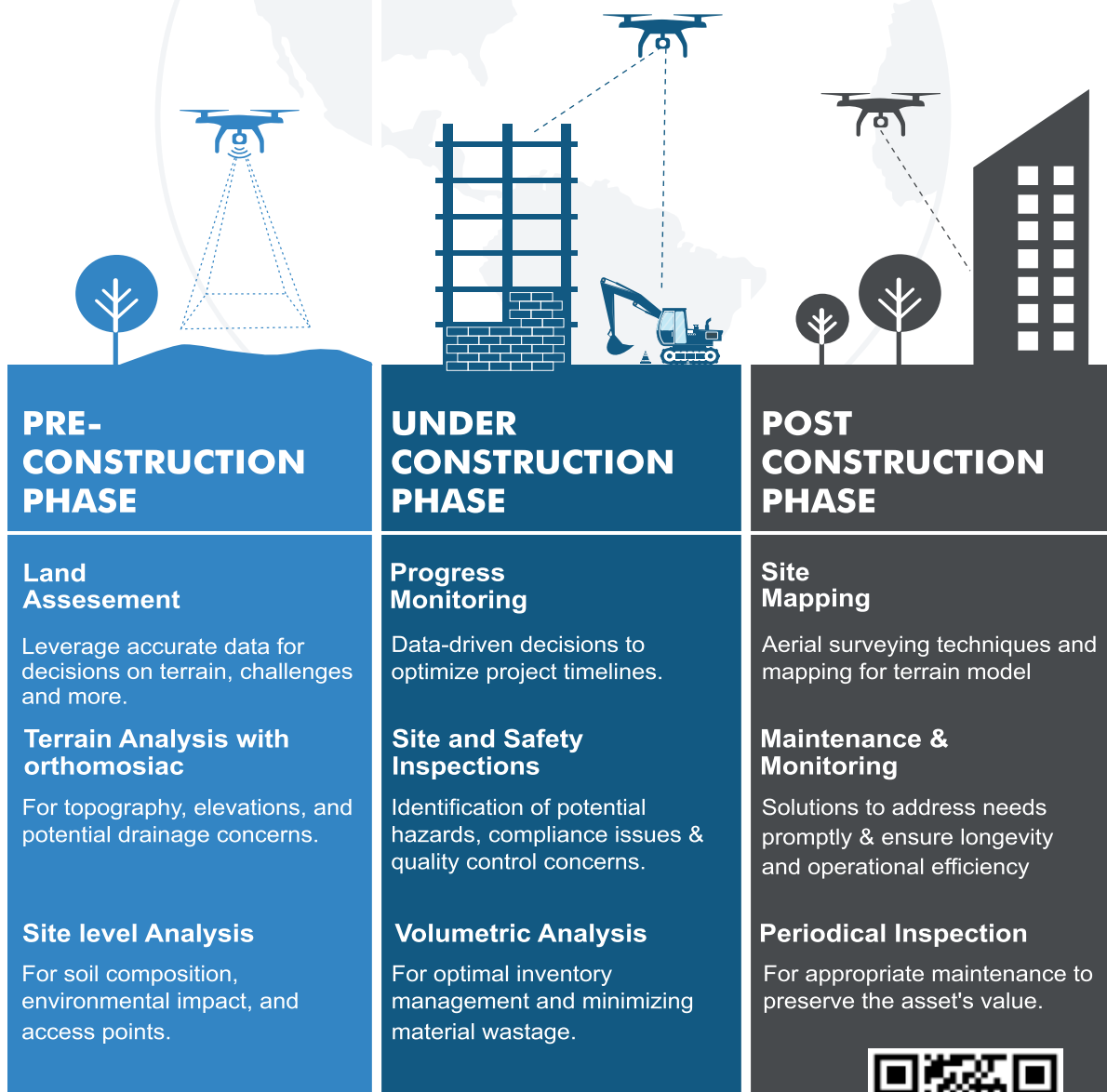
Ambuja Cements Ltd (ACL), the cement and building material company of Adani Cement and part of the diversified Adani Group announced the acquisition of Sanghi Industries Ltd (SIL) at an enterprise value of Rs 5,000 crore. ACL will acquire 56.74% shares of SIL from its existing promoter group, Mr Ravi Sanghi & family. The acquisition will be fully funded through internal accruals. "This landmark acquisition is a significant step forward in Ambuja Cements' accelerating growth journey," said Mr Gautam Adani, Chairman of the Adani Group. "By joining hands with SIL, Ambuja is poised to expand its market presence, strengthen its product portfolio, and



reinforce its position as a leader in the construction materials sector. With this acquisition, the Adani Group is well on course to achieve its target of 140 MTPA of cement manufacturing capacity by 2028 ahead of time. With SIL's limestone reserves of a billion tonnes, ACL will increase cement capacity at Sanghipuram

to 15 MTPA in the next two years. ACL will also invest in expanding the captive port at Sanghipuram to handle larger vessels. Our aim is to make SIL lowest cost producer of Clinker in the country." SIL's integrated manufacturing unit at Sanghipuram in Gujarat's Kutch district is India's largest single-location cement and clinker unit by capacity. With 2,700 hectares of land, the integrated unit has two kilns with a clinker production capacity of 6.6 MTPA and a cement grinding unit with a capacity of 6.1 MTPA. It has a captive power plant of 130 MW and a Waste Heat Recovery System of 13 MW. The unit is also connected with a captive jetty at Sanghipuram.

Revolutionize Construction with Simplified Processes Powered by AeroMegh SaaS Platform



CASTROL INDIA APPOINTS ROHIT TALWAR AS VICE PRESIDENT & HEAD OF MARKETING



Castrol has announced the appointment of Mr. Rohit Talwar as Vice President and Head of Marketing, effective 1 November 2023. Mr. Talwar will succeed Ms. Jaya Jamrani in this role, who has decided to take a one-year sabbatical. Mr. Talwar will be responsible for steering Castrol's comprehensive marketing strategies to deliver growth and value for our customers and shareholders. He will also join the Castrol India Leadership Team.

Mr. Talwar brings with him a wealth of experience, possessing 21 years of proficiency in leading high-performance multicultural teams across various levels and assignments, locally and globally. His distinguished career spans both developed and growth markets within the Castrol group.

Mr. Talwar's journey with Castrol India commenced in June 2004 when he joined as a Management Trainee. Over the years, he has made significant contributions to the brand's growth in diverse roles, including Sales Manager, Bikes Brand Manager, and Cricket Sponsorship Activation Manager. Mr. Talwar notably served as the Global Brand Manager in the Commercial Vehicles Category, where he played a pivotal role in the development and launch of the internationally acclaimed Castrol VECTON brand. In 2017, Mr. Talwar returned to

Castrol India Limited, where he held prominent positions such as Head of Brand and Communication and Deputy Vice President of Marketing for India. Since 2019, Mr. Talwar has been leading marketing for Castrol Vietnam. In this capacity, he has overseen both B2C and B2B marketing initiatives, driving innovation and delivering substantial business growth in the Vietnamese market.

Castrol India wishes to express its heartfelt gratitude to Ms. Jaya Jamrani for her invaluable contributions during her tenure as VP and Head of Marketing. Ms. Jamrani has decided to take a well-deserved sabbatical in line with bp's flexible working policy. Mr. Sandeep Sangwan, Managing Director of Castrol India, states, "Rohit's wealth of experience, unwavering commitment, and exemplary track record within the Castrol family perfectly align with the demands of this role. We are assured that his leadership will further elevate our marketing endeavors and contribute significantly to our continued success." Mr. Talwar conveyed his enthusiasm for his new role, saying, "I am deeply honored to accept this appointment and eagerly anticipate rejoining the Castrol India team. I look forward to collaborating closely with our exceptionally talented team to propel our marketing initiatives to new heights and further uphold Castrol's legacy of excellence."

Pidilite Industries appoints Manish Dubey as Chief Marketing Officer

Pidilite Industries has appointed Manish Dubey as its Chief Marketing Officer.

Bharat Puri, Managing Director, Pidilite Industries said, "We are delighted to welcome Manish Dubey to the Pidilite family. His deep expertise in branding, digital marketing, and leadership will undoubtedly strengthen our marketing strategies and contribute to



our continued success." In his prior role at ICICI Prudential Life Insurance, Manish held the position of Chief of Marketing & E-Commerce. Sharing his thoughts on this significant move, Manish Dubey, Chief Marketing Officer, Pidilite Industries, stated, "Pidilite's focus on building iconic brands and solid customer connect keeps them at the industry forefront. I'm excited to join the company and use my experience to further drive impactful marketing and digital strategies."

Colliers appoints Badal Yagnik as new Chief Executive Officer in India



Leading diversified professional services and investment management firm Colliers announced that Badal Yagnik has been appointed as Chief Executive Officer, India, effective immediately.

Based in Gurgaon, Yagnik will collaborate closely with Sankey Prasad, Colliers' Chairman & Managing Director, India, to drive further growth and profitability for the firm. "As one of the most well-known



CE Update
Editor Kartikeya
In conversation with



S. Narsimha Reddy
President
Builders Association Of India



Q How do you see the current scenario of construction and real estate sectors for civil Construction companies, contractors, developers, and builders?

A The current scenario seems to be quite favorable for the Industry. Also there are many inputs and report that suggest the real estate sector, which suffered massively during the two years of pandemic, has been recovering fast, while state spending on the road network, ports, airports and other infrastructure has gone up over the past few years. There is an increase in demand in housing and real estate and Construction firms are expected to add jobs across categories be it skilled workers, semi-skilled workers, engineers, technicians and clerical staff, so to say.

Q What are the challenges and issues faced by the construction industries in India?

A Yes, there are some challenges as we all know be it ; labor shortages,

rising material costs, project delays, and safety concerns that have been discussed at all forums time and again and the industry is working towards it. The Government has also assured to support the industry.

Q How are the increased construction costs and higher interest rates affecting the real estate market? Are buyers delaying their decision, and thereby forcing developers to go slow on launching new projects?

A The increase in the cost of raw materials and alike does affect adding to the overall constructions cost but then as far as real estate market is concerned we have seen the rise in the segment and I don't see the buyers delaying their decision. If you see the reports on real estate in Q2 2023, home sales in India's 8 major markets rose by 8% to 80,250 units compared to 74,320 units sold in Q2 2022 also in first half of 2023, the total number of houses sold in major cities reached 166,100 units, up by 14.6% from the same period last year.

Q India has now become the third largest construction industry in the world after the USA and China. As the representative body of builders and civil engineering construction companies, where do you see India's CE industry stand today in terms of technology advancements vis a vis developed markets?

A Country's CE industry is growing well adapting to robotics, AI , IoT, data analytics, telematics at times, given the construction industry is also working on BIM (Building Information Modeling) but I think there is always scope for improvement and gradually we could lead one day as well!

Q You have advocated the need for Unified Standard Contract Document for all governmental bodies. Can you further comment on it?

A I think we have discussed this time and again. Primarily, we seek implementation of 'One



Country and One Scheme', which should cover all such works where Public Money is involved including Public limited companies. As of now Govt. is moving more and more towards privatization for Public works and this should be avoided. Furthermore, we need standard Contract documents based on Indian legal system as many provisions of FIDIC are not in tune with Indian Laws. Moreover, by introduction of COPA (conditions of Particular Agreement) huge ambiguity is created which is cause of disputes many a times and should be thus avoided. Arbitration in construction contract should be made compulsory before going to court.

Q What steps are being taken to encourage skill upgradation of workers for the CE Industry?

A Skill upgradation is the element essential of growth and I think both the industry as well as Government through its various offerings is helping out. Also BAI regularly organizes technical seminar and lectures for all its industry members

Q As the President of the Association, what are your priorities to solve the constraints faced by the builder and contractor community?

A Yes, it is indeed an honor to be the President of Builders' Association of India, (BAI), the only national apex body representing civil engineering construction companies working for the betterment of the industry. BAI is working on various fronts communicating to the government about the problem faced while suggesting alternate remedial measures as well. If you know BAI had been quite influential during the Vivad Se Vishwas campaign and the Mediation Bill that was recently passed. There are other concerns certain procedural issues in areas of tender process, road laying constructions, financials, taxation and alike. BAI is working on to have it resolved gradually, as well.

industry leaders in the real estate sector in India, Badal has accelerated the success of his clients to deliver some of the most successful real estate projects of impeccable quality," John Kenny, Colliers' Chief Executive Officer, Asia Pacific, said. "An exceptional leader and real estate industry veteran, he has been credited with establishing robust cross-border teams while creating some of the most profitable businesses in India. We are excited to see him put his skills and experience to use, guiding our rapidly growing India business into its next phase."

Sankey Prasad, Chairman & Managing Director, India, added: "I welcome Badal to the Colliers team and look forward to collaborating with him to drive exceptional results for our clients and people. For close to three decades, he has been devising successful end-to-end real estate strategies for key corporate occupiers and developers. Badal has represented numerous corporations and professional service firms at local, regional, national, and international levels, successfully executing some of the most complex and marquee transactions in the industry."

"I am confident that Badal will drive stellar growth for the organization with his exceptional capabilities. He has a strong track record leading teams to deliver high value and supporting clients in achieving their business goals. With cutting-edge market expertise and remarkable strategic proficiencies, he will undoubtedly lead the industry into the future."

Colliers India has grown exponentially in the last four years and continues to be the fastest-growing real estate services firm in India, attracting top-quality talent and diversifying into emerging markets.

Badal Yagnik, Chief Executive Officer, Colliers India, added: "Colliers' growth in India has been remarkable, and in the past four years, the firm has transformed its business by building scale, expanding capabilities and strengthening client relationships

and partnerships. This is an incredible time for the Indian real estate industry, as our country is poised to deliver higher growth to the global economy. Colliers is well-positioned to enhance its market leadership further and I am excited to be part of the firm's growth story. I look forward to collaborating with Sankey and the leadership team to unlock the company's significant potential for our clients, people, and other stakeholders."

Mindspace Business Parks REIT Appoints Ramesh Nair as CEO



Mindspace Business Parks REIT owner and developer of quality Grade A office portfolio announced the appointment of Ramesh Nair as Chief Executive Officer, with effect from September 1, 2023. Mindspace REIT also announced the elevation of Vinod Rohira from his role as CEO to Board Member of the REIT. This strategic move ensures stability and continuity of leadership, as Mindspace REIT embarks on its next phase of growth and expansion. In his new capacity, Vinod will also spearhead a larger role within the group as Managing Director and CEO – Commercial Real Estate, K Raheja Corp; along with a seat on the Board of the Residential Business – K Raheja Corp Homes.

Speaking on the appointment, Mr. Ramesh Nair said, "I am honoured to lead Mindspace REIT through its forthcoming growth phase.

My experience in working with the management, as an external partner, has allowed me to witness a culture of collaboration and high potential, which I am excited to contribute to. The REIT exhibits strong potential for growth, and I look forward to working with the Team to create enduring value for stakeholders. I express my gratitude to Vinod for establishing such a robust foundation for the business' future endeavours."

Speaking on his elevation, Mr. Vinod Rohira said, "It has been an absolute privilege to lead Mindspace REIT through the listing and witness its growth over the last 3 years.

As I transition into my new role, I welcome Ramesh and look forward to supporting the continued growth and success of the REIT along with the group businesses, from this new vantage point."

Mr. Neel Raheja, Board Member, Mindspace Business Parks REIT, said, "We welcome Ramesh as he takes on the role of CEO for Mindspace REIT. Our past collaborations with him have yielded highly favourable results, and we look forward to his adept management of the business. We are grateful to Vinod for his exceptional leadership and wish him the very best as he takes on a larger role as Board Member of the REIT and MD and CEO of the non-listed commercial portfolio. His guidance will play a pivotal role in fortifying and advancing our organization."

With over 25 years of experience across most facets of the real estate business, Ramesh has worked across diverse asset classes spanning office, land, retail, residential, warehousing, datacentres and hotels, guiding domestic and multinational owners, investors and occupiers across the entire real estate development cycle. He has a track record of producing stable revenue and profit growth in dynamic and changing markets and building cross functional teams and capabilities.

KANHA SHANTI VANAM



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anha Shanti Vanam is where the Heartfulness Movement is centered. The beauty of the location resides in its subtlety; the natural and harmonious nature of the site resonates with the balance and love felt by the hearts of individuals visiting and living in Kanha. The location is magnificent in its style and design, serene atmosphere, and beautiful in its subtlety.

Green Building Council (IGBC) Platinum designation in 2019 for upholding world-class environmentally friendly practices. Kanha Shanti Vanam fosters oneness with oneself and others. It is located beside the Vivekananda Marg, hidden by the solitude of trees and surrounded by the inscriptions of religious books.

CONCERNING THE FOREST OF PEACE

The Heartfulness Institute's global headquarters in Kanha Shanti Vanam in the Hyderabad city of Telangana. You may experience basic life in harmony with the inner and outward environment at the ashram, an ecological paradise and a haven of spiritual retreat. Kanha Shanti Vanam offers engaging activities that encourage general well-being and the chance to learn and contribute, combined with spiritual instruction. Kanha received "ThePrideofTelangana" in 2019 from Round Table India and Times of India for commitment to inner well-being. As the first meditation centre in the world to accomplish this achievement, the centre also got the Indian

THIS SPIRITUAL HAVEN'S JOURNEY

This whole region was mainly arid and desolate before 2010. Initially, a significant plantation effort was launched, focusing on the regional species at risk of extinction. The environment has changed, and the amount of greenery has progressively risen.

INTRODUCING KANHA SHANTI VANAM'S LEADER

The Heartfulness Guide is Kamlesh Patel, popularly known as Daaji. He provides a straightforward, simple-to-follow method accessible to individuals of all ages and walks of life for the experiential, practical study of consciousness growth.



With the amenities provided, Kanha Shanti Vanam offers unparalleled well-being.

In Kanha Shanti Vanam, there are a lot of high-quality amenities. These facilities centres have excellent infrastructure and provide their residents with quality services. These amenities are listed below:

● **A MEDITATION STUDIO**

The meditation centre's majestic and tall construction captures everyone's attention and imagination.

● **YATRA GARDEN**

The Yatra Garden is a place of quiet study and contemplation where you may spend time in several lovely gardens created to resemble a trip. The Yatra signifies the spiritual journey through the human body's energy centres or chakras.

● **YOGA ACADEMY**

Yoga teachers and other training staff can learn online at the Heartfulness Yoga Academy.

● **AUDITORIUM**

A top-notch theatre with a capacity of roughly 850 has been built within one of the Kanha meditation centre's satellite buildings. It offers high-speed Internet access, a cutting-edge audio-visual system, central air conditioning, and soundproofing. The building has a drinking water facility, restrooms, and green rooms.

● **A CONFERENCE ROOM**

A couple of conference rooms with central air conditioning, top-notch lighting, and state-of-the-art audio-visual equipment are housed around the main meditation hall in the satellite buildings.

ADDED AMENITIES

The Kanha Shanti Vanam contains a lot more amenities. These amenities ensure the comfort of the locals and visitors.

● **SPORTS COMPLEX**

At Kanha Shantivanam, a facility for holistic well-being and the site of the most prominent meditation centre in the world, HISC

encourages a love of sports and exercise in a tranquil setting. The 54,680-square-foot sports complex is equipped with 14 state-of-the-art gymnasiums.

- **14 COURTS FOR BADMINTON**
- **THREE SQUASH COURTS**
- **POOL MEASURING 25 METERS**
- **FITNESS FACILITY AND GYM**
- **CHILDREN'S PARK**

The children's park in Kanha is the most spectacular and enjoyable play place for the small ones, fulfilling every child's desire. The Children's Park was created to foster children's growth and observational abilities.

● **MEDICAL FACILITY**

All Kanha inhabitants, visitors, and people from nearby villages may receive medical care at the Kanha Medical Centre (KMC), a full-time institution administered by a licensed group of doctors and paramedics.

● **KAUSHALAM**

With the help of the Personal Mastery Program, find inspiration inside. Thanks to this residential program, entrepreneurs, executives, and professionals can go from burnout to delight.

● **THE GOSHALA (SHELTER FOR CATTLE)**

Our journey back in time is made possible by the Goshala at Kanha. Unending agricultural terrain that is tranquil surrounds the Goshala.

Staying in Kanha will help you to find inner peace and harmony. It is well-kept and a great location to stay, this property. You may live in a dorm or rent an apartment, depending on your needs. In addition, you may make a hotel reservation here.

- The Pearl Hotel is there for you; within the grounds of Kanha lies a 4-star hotel. Your senses will be soothed, and The Pearl's fantastic experience will revitalise your body.
- Comfy lodging would help if you stayed in one of our roomy, bunk-bed dorm rooms.
- At Kanha, you may experience communal life. Create your staycation by renting a service apartment. In Kanha, there are apartments for rent.
- You are welcome to rent an apartment on the property and take advantage of Kanha's way of life. Depending on availability, apartments may be rented in Madhuvanam, Kanha.

PLACES TO EAT

There are numerous excellent venues to satiate your appetite. The Kanha Shanti Vanam has a cafe, restaurant, and dining room.

- Dining Room- A sizable dining hall in Kanha offers free, essential, and light meals thrice daily, every day of the year.
- Fausto's- Italian food is served at Kanha's Fausto's patio restaurant.
- Suruchi Cafe- In Kanha, a large, contemporary restaurant called Suruchi Cafe offers three regular meals daily.

OUTSTANDING INITIATIVES WERE



TAKEN

Sustainable development is being pursued in several ways. These steps are being made to conserve the environment with future ambitions as their goals. Two initiatives include the following:

• **PROJECT GREEN KANHA**

India's mega-biodiversity, indigenous species, and endangered species are protected by the Heartfulness Institute's Green Kanha environmental program. They use the most recent technology in conjunction with scientific planning to build an ex-situ conservation centre with gorgeous green areas.

• **Project Blue Kanha**

This program aims to clean up the campus's water sources. It comprises wastewater treatment, raising awareness, and using various irrigation techniques. Rainwater harvesting is also

a part of it. The Kanha Shanti Vanam campus's layout makes most roadways inclined at an angle. Rainfall may be stored in various reservoirs using this method. The Kanha Sanctuary, home to several bird and animal species, is also close to Kanha Shanti Vanam.

THE BOTTOM LINE

An eco-spiritual retreat called Kanha Shanti Vanam may be found outside Hyderabad, India. The Heartfulness Institute's global headquarters is there. You may discover spiritual serenity and a respite from the hectic daily life at Kanha Shanti Vanam. Kanha Shanti Vanam is the location for you if you want to have a distinctive experience.

REAL ESTATE INVESTMENT TRUSTS (REITS): UNDERSTANDING THE CONSTRUCTION CONNECTION

income-producing real estate properties. Equity and mortgage REITs' traits are combined in hybrid REITs. REITs make real estate investing feasible without the difficulties of property administration, property upkeep, and other related fees. Due to their ability to be purchased and sold like stocks on significant stock exchanges, REITs also give investors the possibility of liquidity.

R

Real Estate Investment Trusts are real estate holdings' owners, managers, and financiers that provide revenue. It permits real estate market investments without requiring the actual acquisition and management of assets. Several development trends impact the availability and demand for real estate properties. As a result, it may impact how well these REITs manage and own their assets. This article will summarise REITs and look at specific construction patterns and how they affect REITs. Let's discuss some issues that might aid you in selecting the best investments.

DESCRIBE REITS.

A REIT's primary goal is to bring in money for its owners, whether it be through rental income, capital gains, or both. REITs are a desirable investment since the law mandates that at least 90% of their taxable revenue be distributed to investors as dividends. Individual investors can now access REITs to buy sizable, profitable real estate assets. Since then, REITs have gained popularity worldwide, with other nations passing laws to establish their own REIT systems.

There are several REIT kinds. While mortgage REITs engage in mortgages and other real estate financial instruments, equity REITs own and manage





CONSTRUCTION TRENDS IN PARTICULAR AND HOW THEY AFFECT REITS

We'll look at some market trends for building in this part that affect how well REITs perform.

•Practices for Sustainable Construction

The need for cost reductions and environmental concerns led to increased use of sustainable construction techniques. For instance, green buildings employ energy-efficient technology and sustainable materials, which cut running costs and boost tenant demand. This trend may be advantageous for REITs who own and manage these kinds of assets. By investing in green buildings, REITs may decrease operating costs and raise tenant demand. It can, therefore, result in increased rental revenue and property prices.

•Innovations in technology

Using building automation systems, for example, has advanced construction technology that may increase efficiency and lower maintenance costs for real estate holdings. The REITs that own and manage these properties may benefit from this trend. By implementing these technologies, REITs can save operational expenses and boost the effectiveness of property management.

•Changing demographics

The demand for specialist real estate properties, such as senior housing and healthcare facilities, may rise due to demographic changes like an ageing population. It may

benefit REITs that own and manage these kinds of buildings. By investing in these specialised properties, REITs may benefit from the rising demand and increase their rental revenue and asset prices.

•Properties with a Wellness Emphasis

The real estate sector is seeing a rise in the popularity of properties that focus on wellness, including gyms and spas. REITs can exploit this expanding market by investing in wellness-oriented buildings, resulting in more demand, higher potential rental revenue, and better property appreciation.

• Building in Modules

Using this technique, which entails building modules off-site before assembling them on-site, may drastically cut down on both the cost and duration of construction while also improving efficiency. These advantages are advantageous for REITs with buildings built using modular construction. REITs could shorten the time and cost of construction by employing modular methods, which might result in a quicker start to generating rental revenue and possibly greater profits. Modular buildings may also be utilised to create homes in places without building materials, such as isolated or heavily inhabited locations.

• Multipurpose developments

These projects can be found in urban or suburban settings and frequently combine residential, business, and retail spaces in a single structure or complex. Increased rental income and greater returns are possible due to the diversified tenant mix in these developments. Commercial and retail tenants may also profit from increased foot traffic in mixed-use complexes.

HOW TO CHOOSE REITS TO INVEST IN

Do you need help determining which REITs to buy? Many options exist, but you may still choose some and anticipate positive results.

- **Assessment of the Management Team**

A REIT's management staff plays a critical role in its success. To ensure the management team has a good track record of managing real estate holdings and generating value for investors, investors should examine the expertise and background of the group.

- **Review the portfolio of the REIT.**

Examine the portfolio to make sure it reflects their investing objectives. Make sure that the properties are well-positioned to provide rental revenue and that the value will increase over time by taking into account the location, property type, and tenant mix.

- **Take into account the Dividend Yield.**

Dividend payments of at least 90% of taxable income must be made to investors by REITs. Investors should consider the dividend yield when estimating how much they can drive.

- **Examine the Financial Performance.**

Verify the REIT's financial health to see if it is solvent and can withstand market downturns. Check the REIT's financial documents, including the balance sheet, cash flow and income statement, to ensure it makes enough money through rentals and keeps a healthy balance sheet.

- **Potential for Future Growth**

Verify that the business is well-positioned to take advantage of future chances by looking at the growth potential. To ensure the REIT is prepared for future growth, look at its pipeline of properties that are either being developed or acquired.

- **Think About the Effects of Construction Trends**

Analyse the effect of construction patterns on the real estate portfolio of the REIT. Check whether any green buildings are part of the REIT's portfolio, for instance, if sustainable construction techniques are a prominent trend in the real estate industry. An investment opportunity may be more alluring if the REIT is well-positioned to profit from development trends.

CONCLUSION

The relationship between construction patterns and real estate investing is essential for REIT investors. Some critical trends reshaping the real estate sector and influencing the performance of REITs are sustainable building techniques, technological improvements, and demographic changes. Investors aware of these patterns will be better able to see prospective investment opportunities and make wise choices.

Q When was Infrastructure Equipment Skill Council (IESC) started? What is its motive?

A IESC was set up in 2014 to contribute to and be a part of the National Skill Development Mission officially launched by the Hon'ble Prime Minister in 2015 on the occasion of World Youth Skills Day. The Mission has been developed to create convergence across sectors and States in terms of skill training activities. IESC is the apex body for skilling related activities in the Construction Equipment Industry in India and acts as an interface between the Government (Central & State) and the Industry on subjects related to skilling. IESC works closely with NSDC (National Skill Development Corporation of India) and the apex regulator NCVET. All IESC Job roles are aligned with the National Skill Qualification Framework(NSQF). IESC represents more than 40 OEMs in the Construction Equipment Industry many of whom are Multinationals. Since its inception, IESC has developed 40 job roles covering over 80% of the work force, accredited over 60 Training Partners, certified over 800 trainers and trained over 50,000 personnel. IESC is duly supported by Construction Equipment OEMs through state-of-the-art operator training centres across India and also works with many Private Training Partners. IESC's vision is to create a sustainable industry aligned ecosystem for robust skill & entrepreneurship development in Infrastructure Equipment Sector

Q Despite a lot being said and done, the challenge of upskilling and training operators remains. How can the construction equipment industry meet the growing demand for trained and certified operators and mechanics? What are some of the biggest challenges you are facing in up-skilling people and how are you navigating through these challenges?

A A key challenge being faced by the Construction equipment sector is the high cost involved in training operators and mechanics, viz-a-viz other sectors, by virtue of the high capex & opex involved. Compensation of IESC's training cost therefore needs to be re-evaluated by the Government. In view of the increase in demand for CE operators and technicians in the future, and on account of safety requirements with regard to operation of Construction equipment, it is important that the Government considers mandating deployment of trained & certified Construction Equipment Operators and Technicians in India across projects, in a phased manner. The Indian Construction Equipment Manufacturers Association (ICEMA) along with IESC has represented to the Government on this issue. Another area of concern is the low appeal for Construction equipment operator job roles amongst the youth considering the arduous & remote working conditions where such equipment operate. There is therefore a strong need to make equipment

operator and technician job roles more attractive and lucrative for the youth. This can only happen through a sustained campaign to increase awareness amongst the youth and especially so through OEM campaigns and Educational Institutes. OEMs, as a part of their corporate CSR initiatives, are also engaging with youth from villages and underprivileged communities in the country to promote equipment operator and Technician training programmes.

Q What is the current demand-supply scenario of skilled manpower for construction and equipment industry?

A The Construction Equipment Industry is a key enabler of Government's flagship infrastructure projects such as the Rs. 111 Lakh Crore National Infrastructure Pipeline and the Rs. 100 Lakh Crore PM Gati-Shakti National Master Plan. The Construction Equipment (CE) Vision Plan 2030 envisages a 3X growth in volumes between FY20 & FY30, implying that ~3 million CE operators and mechanics will be required to operate & service Infrastructure equipment between FY20 & FY30. Trained and certified Construction Equipment operators are essential not only for completion of projects on time and within the desired quality parameters but also from the point of view of safety as most construction and mining equipment are operated in a hazardous environment where adherence to safety norms/standards is imperative.

Corporation of India) and the apex regulator NCVET. All IESC Job roles are aligned with the National Skill Qualification Framework(NSQF). IESC executes Government Skilling Projects through its Training Partners.

Qualification Packs and Content

IESC Job Roles, aligned to National Skill Qualification Framework (NSQF), cover a wide range of areas including equipment operations, maintenance & repair and supervision.

Additional job roles in emerging areas of new Products and Technologies are constantly evaluated and actioned upon. IESC has 28 Job Roles that are currently available at NSQF levels 3, 4 and 5. IESC offers Member companies with inputs to

upskill their existing workforce and hence reduce/eliminate the skill gap.

Accreditation of Training Partners (TPs) and Affiliation of Training Centers(TCs)

IESC assists in Accreditation of Training Partners and Affiliation of Training Centres. IESC works with Industry partners, Academia and Private Training partners in setting up a Skilling ecosystem to cater to the evolving skilling needs of the Industry,

Building Strategic Partnerships

IESC offers a platform, through regular meetings, conferences and exhibitions, for Members to connect on key issues related to skill development in the Construction Equipment Industry. Industry Partnerships, Academia Connect, linkages

with Private Training Partners and NGOs are facilitated by IESC.

Project Management

IESC implements Skilling projects through its Partners. The activities include Coordination with Funding Agencies, Allocation of Targets to Partners, Monitoring of Project Execution, ensuring Uniformity and Consistency in Training Delivery and Process Audits at Project Sites.

Creation of a Pool of Skilled personnel

IESC, through its Industry validated qualification packs, network of Training partners and Trainers, provides Member companies with access to a large and skilled pool of trained and certified manpower who are "Industry ready".

in the Construction Equipment Industry. Industry Partnerships, Academia Connect, linkages with Private Training Partners and NGOs are facilitated by IESC.

Q What is the vision of IESC for the next 5 years?

A A study commissioned by the CE Industry Association on the Technology Vision Road Map 2035 focused on Jobsite Safety, Jobsite Solutions and Sustainability. Corresponding evolution of skills was also studied. Many of the focus areas such as Safety features, AI/ML integration, Autonomous and digitalized construction, alternative fuels are being explored. IESC will look to expand its footprint by adding more members, expanding partnerships, including more products and pushing for widespread adoption of its Qualifications.




W

ith the adoption of the digital era, the construction sector is going through an impressive transition. Being successful in the present climate of the construction industry and maintaining competitiveness are now firmly tied to adopting technical breakthroughs because of the rapid adoption of new tools and technology. In reality, if construction businesses wish to remain viable and thriving in the modern period, they must now comply with this rule.

By adopting cutting-edge technology, construction companies may reevaluate their processes, boost efficiency, and complete projects with exceptional precision and speed. Project management software, Virtual Reality, or building information modeling (BIM) allows construction workers to rethink project planning, execution, and collaboration. By doing this, future users of the building are shielded from inconvenience and hardship. For instance, if the initial construction is subpar, a landlord who purchases the property while it is being built and is utilizing property management software will probably have to schedule contractors a lot of the time.

Beyond merely streamlining procedures, digital innovation in construction is crucial to meet shifting client needs. Customers nowadays seek construction partners who can finish projects on time, under budget, and to the highest quality standards. Innovative approaches that enhance communication and enable seamless collaboration enable construction businesses to involve clients throughout the project lifecycle.

BUDGETING

Any construction company that wants to succeed must have a budget and keep costs under control. Construction firms may achieve precise cost estimation, effective budget management, and complete financial control by applying contemporary cost control and budgeting strategies. Generating accurate cost estimates is one of the advantages of using new cost management techniques. Construction management software employs recent algorithms, industry benchmarks, and historical data to produce more precise cost projections. Considering several factors, these tools thoroughly analyze project expenditures throughout the planning stage.

IMPROVED INTERACTION AND COOPERATION

For construction projects to be completed, teamwork and communication must be improved. Adopting cutting-edge tech tools that enable streamlined stakeholder interaction, enhanced project coordination, capability for remote collaboration, improved document management, and efficient communication with field teams can help construction companies achieve better results,



increase productivity, and strengthen stakeholder relationships.

Thanks to cloud-based project management software, video conferencing services, and collaborative document-sharing technologies, team members can collaborate effectively no matter where they are. These tools make real-time decision-making, information sharing, and collaboration possible by boosting output and shortening project turnaround times. These technologies expedite processes, support prompt decision-making, reduce errors, and enhance overall project efficiency.

CONTROLLING RISKS AND SAFETY

In the construction sector, safety and risk management are crucial. Protecting employees, reducing accidents, and ensuring project success depend on putting strong safety measures and risk management techniques into place. Creative technologies are essential to improve safety procedures and manage risks.

- First, cutting-edge technologies allow construction organizations to anticipate possible safety concerns and detect and address them before they arise. Examples include wearable technology and real-time monitoring systems. These instruments give real-time data on the state of the environment, the machinery's functionality, and the workforce's health, enabling prompt intervention and preventative actions.
- Additionally, QR codes might be a fantastic option to protect your information. QR codes have become an invaluable tool to encourage safe behaviors. Workers may quickly obtain safety guidelines, equipment manuals, or emergency procedures by scanning QR codes placed on tools, materials, or specific regions of a building site using a smartphone or tablet. This immediate access to important safety information improves worker understanding, guarantees adherence to safety measures, and makes the workplace safer.

FOLLOWING TRENDS

Construction companies must follow trends to stay competitive and adapt to their clientele's shifting needs and preferences. By keeping up with the most recent trends, construction businesses may take advantage of new possibilities, promote innovation, and position themselves as industry leaders. Several of the tendencies include:

- Environmentally-friendly construction

A developing trend in the building sector is the focus on sustainable methods. It entails using eco-friendly materials,

implementing energy-efficient designs, using renewable energy sources, and embracing green building certifications like LEED.

- Robots and automation

Construction procedures are changing as a result of automation and robotics. Building materials, 3D printing, automated material handling, and bricklaying are just a few jobs that construction businesses that use robotic technology. This trend aims to increase building site productivity, accuracy, and security.

- Smart Buildings and the IoT

It is possible to optimize building efficiency, energy management, and occupant comfort by integrating IoT devices and intelligent building technology. IoT sensors and systems allow for real-time monitoring, proactive maintenance, and data-driven decision-making.

Construction Industry Decarbonization: Leveraging Gamification's Power : By 2050, all new construction, infrastructure projects, and renovations must have net zero embodied carbon to satisfy government targets and pursue sustainable aims. All structures, even those already in place, must aim towards net zero operating carbon. Digital twin adoption is a viable strategy for cutting carbon emissions efficiently. With real-time data, digital twins may replicate information from the outside world. Digital twins offer valuable insights for minimizing energy consumption and emissions by monitoring critical environmental aspects, including indoor air quality, HVAC systems, and power use. The gamification concepts advance this by converting the gathered data into a user-friendly and engaging digital twin environment.

Gamification encourages and engages people and groups to engage actively in sustainable behaviors. The digital twin's interactive features offer an immersive experience that enables users to visualize the effects of their actions and choose wisely to decrease carbon footprints. This cutting-edge strategy promotes cooperation, gives stakeholders more authority, and motivates stakeholders to work together to decarbonize the building sector. The construction industry may open the door for significant and quantifiable reductions in carbon emissions by utilizing the potential of digital twins and gamification. Future generations will live in a constructed environment that is more resilient and ecologically conscious thanks to this innovative strategy, which also corresponds with global sustainability goals.

SUMMARY

Rapid technological innovation in the building sector is driving this advancement. Accuracy, efficiency, and stakeholder communication are all enhanced by modern technologies and techniques, including project management software, virtual reality, and building information modeling. Robotics, automation, and intelligent building technologies are essential for success, as are keeping up with trends and putting them into reality. In conclusion, for construction firms to succeed in the digital era, digital innovation must be incorporated, and they must also stay current with market trends.

Construction

Equipments Update

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STORAGE UNITS: ARE THEY WORTH BUYING OR BUILDING?

The answer to whether to build or purchase a storage unit typically relies on the area and the individual's needs. An intentional storage owner must have a well-thought-out plan before acquiring or building. Finding the finest and most affordable storage options is one of the most critical factors. Understanding the particular use of the storage units and the advantages and disadvantages of purchasing vs. creating will help make the difficult decision. If you want to start working on your first storage unit but need help figuring out where to start, continue reading below.

WHAT IS THE STORAGE FOR?

A variety of uses are made for storage containers. You should be aware of some of these:

- To Assist Consistent Travelers

Some people travel regularly depending on their area of employment. Given that their lives are centred around their jobs, having storage facilities may be helpful to them. It might be challenging to carry everything they need wherever they go and whenever they need it under regular conditions. However, they may be sure their possessions will be safe until they return by renting a storage container.

- As additional storage for use during remodelling projects

During renovation projects, storage containers are helpful. They'll undoubtedly be needed in some situations, whether for home or business uses. As dust and mould are the last things anybody wants to see cover their furniture and equipment, having a storage container will help to keep everything organized and in excellent shape until the restoration is done. Unused building materials may be carefully preserved for future uses, which is beneficial.

- For use by businesses

Many company owners use storage containers to house their inventory, commodities, supplies, and other essential items. All business owners, especially entrepreneurs of all hues, frequently need more space for their merchandise. A more cost-effective choice is to purchase storage containers as they would have to pay a substantial fee to rent a larger office. In this case, your budget and the specific requirements of your business will determine whether you should build a storage unit or buy one.



- To relocate

Homeowners can occasionally rent a storage container to lessen the burden of moving. Getting a storage unit can alleviate the strain of moving to a new home. If you have a lot of possessions but can only bring them some at a time, there is a straightforward option. This method is equally beneficial for those in the midst of downsizing.

- De-cluttering and storing items that don't fit well are made more accessible by storage units.

Additionally, you can buy or construct a storage facility as you move on with the downsizing process. It also allows people to keep their homes neat while enabling them to browse through their stuff without having to toss anything away. In addition to the fact that larger storage units may be created or purchased for the long-term storage of autos, other objects that stand out, such as boats, RVs, motorbikes, trailers, and other items, are also excellent reasons to have



a storage space.

BENEFITS AND DRAWBACKS OF PURCHASING AND BUILDING

Determine the specific use for which the suggested storage unit will be used so that you can go forward and intelligently compare buying vs. building possibilities. Here are a few benefits and drawbacks to assist you in making a better-educated decision.

HAVING YOUR STORAGE UNITS BUILT HAS MANY ADVANTAGES

The supposed benefits of creating your storage units include the following:

- To fulfil brand-new specifications and commercial standards, one might create.
- Only the land and improvements are costed; no commercial

value is included.

- The design and construction procedures are entirely within one's control, and the ideal facility may be made by controlling each phase.
- Construction can be done in phases, adding new parts of standard sizes as needed.

CONS OF CONSTRUCTING STORAGE UNITS

One or more of the drawbacks of creating your storage containers are thought to include the following:

- Many good communities need the land or zoning required for building.
- When constructing for commercial use, finance can take a lot of work to come by.
- Building takes more effort and time than buying.
- Buildings, by nature, are more unstable and dangerous than purchases.
- Both time and resources are used throughout the construction process.
- Some situations may prevent you from advancing to further phases of a phased development due to inevitable actions or zoning constraints.

BENEFITS OF PURCHASING A STORAGE UNIT

The choice of purchasing storage units offers advantages. They're:

- Purchasing is much quicker than construction when the price is reasonable.
- There are upgrades available for existing storage units.
- Technology, compartments, temperature, and decks are among the many aspects that need improvement.

DRAWBACKS OF BUYING STORAGE UNITS

Numerous drawbacks include the following when purchasing storage units:

- The ideal storage unit that one wants might not be available for purchase.
- A bought storage unit's expansion may be logistically challenging or financially unviable.
- The ability to avoid paying higher property taxes depends on whether or not company owners may own the storage unit's business organization.

Consider the above reasons if you decide whether to buy or build your storage unit.



WHAT ARE THE SIGNIFICANT DIFFICULTIES AMONG THESE?

There are still specific pretty significant concerns that you can't avoid, even though some of these things are less critical than others:

- **Financing:** Self-storage facility purchases typically require bank funding. It is unquestionably a vote to purchase an existing storage property because finding a lender to construct a storage facility from the ground up is quite challenging.
- **Risk:** Purchasing an existing self-storage facility is far less hazardous than developing one from the ground up. Once more, this is a vote in favour of buying a current storage facility.
- **Odds:** The chances of finding an existing storage facility to purchase are far better than the chances of creating a profitable property from the start.

THE RESOUNDING VICTOR FOR MOST INVESTORS

Given everything above, buying an existing self-storage facility is the best option for most investors compared to attempting to develop one from scratch. Given the

dangers and actual information, the decision is relatively straightforward. Because of this, most investors will enter the storage industry as purchasers rather than builders.

YET, THERE ARE CERTAIN EXCEPTIONS.

Building a self-storage facility can be feasible if you can locate a lovely area with the required zoning, road access, and market demand. We're not arguing that you can't create one from nothing, only that you'd be better off concentrating on purchasing one that already exists. But in your situation, the disclaimer might not be valid. Even if there are a lot of good storage facilities developed every year, the likelihood of a new building is slim. With your ideas, you could overcome the odds, though. That's fantastic if that is the case.

CONCLUSION

With the advantages and disadvantages of building versus buying discussed above, making the choice is less complicated. Before making a choice, evaluate your possibilities by considering the many factors, such as the utilization of storage space and the intended application.



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