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India's First Infrastructure Equipment Magazine®

April 2025 • Vol. 18 No. 3

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FEATURES:

- Dump Trucks...32
- Lubricants...61

INTERACTIONS:

- Shantanu Roy, BEML...36
- Dr Jairam Varadaraj, ELGi Equipments...64
- Seshan Iyer, Schaeffler India...66

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INDIA'S CE INDUSTRY: RISE & SURPRISE!

The global construction equipment industry has been navigating a period of mixed performance. According to Off-Highway Research, global equipment sales experienced a mild decline of 2 per cent in 2024, a downturn less severe than earlier predictions. While a further dip is expected in 2025, growth is anticipated to return by 2026. The global decline can largely be attributed to challenges in the developed markets of Europe, North America, and Japan, where sales were down, particularly in Europe, which saw a sharp 17 per cent fall in sales.



However, amidst these global challenges, emerging markets have exhibited strong resilience, with India leading the charge. The Indian construction equipment market has been a shining star, with domestic and export sales reaching impressive heights. In the first nine months of fiscal year 2024-2025, sales surged by 5 per cent compared to the previous year, with a remarkable 34 per cent increase from 2022. This growth has been driven by the Indian government's strategic investments in infrastructure development and the construction boom that followed. The third quarter alone saw the highest sales volumes in both domestic and export markets, underscoring the growing demand for construction equipment in the country.

India's success is largely attributed to key factors such as robust government spending on infrastructure projects, the conclusion of the monsoon season, pre-purchasing ahead of new emission standards, and the launch of innovative new equipment models. This uptick in the Indian market presents a strong contrast to the struggles observed in the West and serves as a clear indicator of the region's growing importance in the global CE industry.

Looking ahead, the excitement surrounding bauma 2025, the world's leading construction equipment trade fair in Germany, is palpable. The exhibition will undoubtedly play a crucial role in shaping industry trends and boosting global sales. While the global market faces some uncertainty, India's performance offers optimism and confidence that the industry is not only recovering but also poised for future growth. While last year equipment sales were at record highs, the industry expects this year to have a flattish growth.

In line with this, *Equipment India* is proud to present a special edition for bauma 2025, titled 'India NXT'. This edition delves into India's burgeoning role in the global construction equipment sector. Be sure to check out this special edition being distributed at bauma in Munich. *Equipment India* will also be present during bauma Munich 2025, and we invite you to visit our stall in Munich at: Hall B4, 523/5. We look forward to connecting with industry leaders, innovators, and all stakeholders as we celebrate the future of construction equipment together.

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Feature: Dump Trucks India's Trucking Transformation

32



India's trucking industry is undergoing a major transformation, driven by advancements in technology, larger vehicles, sustainability efforts, and a booming mining and infrastructure sector, shaping the future of dump trucks in the country.

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bauma 2025



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North Eastern states, nestled between Himalayas, have often remained untapped due to logistical challenges and limited industrial exposure. However, with investments, policy support, and infra developments, this once remote region is rapidly transforming into a booming hub.

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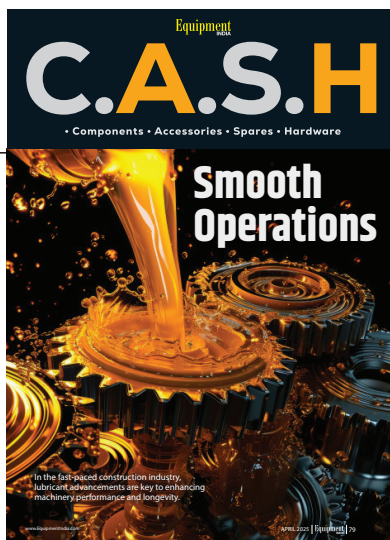
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Special Focus: Lubricants

Smooth Operations 58



In the fast-paced construction industry, lubricant advancements are key to enhancing machinery performance and longevity.

Interactions



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“We’re boosting R&D in our technology centers.” 66
– Seshan Iyer, President, Bearings & Industrial Solutions, Schaeffler India

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Volvo CE hands over EC380DL high-reach excavator to USS in Hyderabad

Volvo Construction Equipment reaffirmed its commitment to safe and sustainable demolition with the ceremonial handover of the EC380DLUHR high-reach demolition excavator to United Saw Services (USS) in Hyderabad. As Volvo CE's tallest and most advanced high-reach demolition machine, the EC380DL UHR is built to handle demanding projects with precision, stability, and enhanced operator safety.

Equipped with the advanced CR-20 concrete crusher, this cutting-edge machine boasts an impressive 23-m reach, significantly reducing dust,



noise, and vibration to deliver a safer and more controlled demolition experience. It will be strategically deployed for the controlled demolition of a fire-damaged, three-story building spanning 50,000 square feet, allowing for safe and

efficient deconstruction in a dense urban environment. This project demands high precision and reliability, emphasising the importance of advanced demolition equipment in urban infrastructure.

The event featured key speakers, Sanu George, Market Area Head for South and West, Volvo CE, India and SN Vinod Kumar from United Saw Services, alongside the chief guests of the event, Mohan Ramanathan, Founder Chairman of the Indian Demolition Association (IDA), and Zaki Ahamed, a leading structural consultant.

Tata Hitachi inaugurates Pavan Motor's head office

Tata Hitachi is pleased to announce the inauguration of Pavan Motor's authorised dealer Head Office and 3S Integrated Facility in Shimoga. As per Tata Hitachi's LinkedIn handle, this new facility brings Tata Hitachi closer to its customers, ensuring timely support in sales, service, and spare parts in the region. The facility was officially inaugurated by Sandeep Singh, Managing Director of Tata Hitachi. The event was attended by esteemed customers, finance partners, and the senior management teams of both Tata Hitachi and Pavan Motors.

Conmat Group acquires 100 per cent stake in KYB-Conmat

Conmat Group, led by first-generation technopreneur Premraj Keshyep, has successfully acquired full control of KYB Conmat, a leading player in the concrete equipment sector, valued at Rs 3.3 billion. The acquisition involved buying back a 51 per cent stake from the company's joint venture (JV) partner, KYB Corporation, a Japanese giant with a \$2.9 billion global presence in concrete machinery. As this was a privately negotiated inter-partner transaction, the financial details remain undisclosed.

KYB Conmat, a top contender in the Indian concrete equipment market, ranks as one of the three



largest manufacturers of products like batching plants, paving machines, transit mixers, concrete pumps, and self-loading mixers. The acquisition was facilitated by global M&A advisory firm Singhi Advisors, with legal support from DSK Legal.

The JV was originally established in 2013 when KYB Corporation acquired a 51 per cent stake in Conmat Systems, which was a rapidly growing and profitable company.

Kobelco CE India marks milestone with 20,000th excavator

Kobelco Construction Equipment India (KCEI), a subsidiary of Japan-based Kobelco Construction Machinery Co, has reached a significant production milestone by rolling out its 20,000th excavator at its manufacturing plant in Sri City, Andhra Pradesh. This facility serves

both domestic and international markets, reinforcing India's role as a key production center for Kobelco.

Takemichi Hirakawa, MD & CEO, KCEI, said, "Reaching the 20,000th excavator production milestone reflects our commitment to delivering high-quality construction

equipment. India has emerged as an important manufacturing base for Kobelco, meeting both domestic demand and expanding our global footprint. As part of our long-term growth strategy, we remain aligned with the 'Make in India' initiative and continue to invest in R&D."

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Schwing Stetter, IIT Madras tie-up to advance waste recycling technology

Schwing Stetter India has taken a significant step toward sustainability by partnering with the Indian Institute of Technology (IIT) Madras to transform construction and demolition waste into high-value resources. As per the company's official LinkedIn handle, this initiative, led by VG Sakthikumar, aims to create a greener future by pioneering advanced recycling technologies.

The collaboration brings together Schwing Stetter's state-of-the-art R&D Center, equipped with cutting-edge technology and top industry talent, to bridge the gap between research and real-world applications. As a Platinum Member of the TLC2 programme, Schwing Stetter is at the forefront of developing next-generation recycling



technologies, producing premium aggregates, and designing advanced machinery to support the construction of cleaner, smarter cities. This partnership is set to significantly impact the construction industry by enhancing sustainability practices and resource efficiency.

Hitachi inaugurates development centre in Hubli

Hitachi Construction Machinery is proud to announce the inauguration of its new Development Center in Hubli, Karnataka, located at The Deshpande Foundation Campus, as per company's official LinkedIn handle. The centre was officially opened by Yusuke Kajita, Executive Officer of Hitachi Construction Machinery, alongside Sandeep Singh, Managing Director of Tata Hitachi, Kobayashi Takahiro, Alternate Director of Tata Hitachi, and Gururaj Deshpande, Co-Founder of the Deshpande Foundation. The event was attended by senior delegates from both organisations. This milestone represents a significant step in Hitachi's ongoing journey of innovation and collaboration, reinforcing its commitment to expanding its presence in India.

JCB NXT 225 and JCB NXT 221LC Fuelmaster launched in Nepal

JCB announced the launch of the JCB NXT 225 and JCB NXT 221LC Fuelmaster excavators in Nepal, setting a new benchmark in fuel efficiency, power, and productivity within the excavator category.

As per the company's official LinkedIn handle, the unveiling was led by Deepak Shetty, MD & CEO of JCB India, and Vishnu Agarwal of MAW, Nepal, marking a significant milestone for Nepal's construction and infrastructure sector. The event, which saw over 550 customers, financiers, and associations in attendance, also included 11 key handovers, further strengthening JCB's presence and impact in Nepal's growing market.

L&T Heavy ships seven screw plug heat exchangers for TOYO India

L&T Heavy Engineering's Heat Transfer Equipment team has successfully shipped seven Screw Plug Heat Exchangers (137-E-102A/B, 137-E-103, 137-E-104A/B, 137-E-105 & 137-E-107), with a total package weight of approximately 380 MT. As per the company's LinkedIn handle, these units, including three HH Type designs and four HL Type designs, were manufactured for TOYO India, with Nayara Energy as the end client. The equipment is intended for installation at Vadinar, Gujarat. The final batch of equipment was dispatched in February 2025. The TOYO India team joined the Flag-off ceremony virtually, commending L&T's performance in meeting the standards in manufacturing.

Ammann India expands reach in Pune

Ammann India, a leader in road construction technology, is excited to announce the grand opening of its new dealership in Pune, in collaboration with Infraplex Machineries LLP. This new facility will enhance the company's ability to provide cutting-edge products and unmatched after-sales support to customers in the region.

The inauguration ceremony was graced by the presence of Manish Kulkarni, Raj Shinde, and Santhosh Iyer, marking a significant milestone in Ammann India's journey to strengthen its network and reach. The new dealership is poised to offer fast and efficient support, easy access to spare parts, and expert guidance – all integral to ensuring that customers' needs are met promptly and effectively.

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Aluminium industry seeks RoDTEP extension for SEZ units

The Aluminium Association of India (AAI) has urged the government to extend the Remission of Duties or Taxes on Export Products (RoDTEP) scheme to aluminium-producing units operating under Advance Authorisation (AA) Export Oriented Units (EOUs) and Special Economic Zones (SEZs). In a representation to Finance Minister Nirmala Sitharaman AAI highlighted that export-focused aluminium units face high tax burdens from both Central and State levies adding up to 10 per cent of production costs. The association warned that without an extension of the RoDTEP scheme the global competitiveness of Indian aluminium exports could suffer. The government had previously extended RoDTEP benefits to aluminium smelters in AAEOUSEZ units in March 2024 and again in September 2024.

Cabinet approves National Critical Mineral Mission

The Union Cabinet has approved the National Critical Mineral Mission (NCMM) on January 29 2025. The NCMM aims to secure a long-term sustainable supply of critical minerals and strengthen India's critical mineral value chains encompassing all stages from mineral exploration and mining to beneficiation processing and recovery from end-of-life products. The NCMM components also include 'increasing domestic critical mineral production' and 'Acquisition of Critical Mineral Assets abroad'.

For acquisition of overseas mineral assets the Ministry of Mines has established a joint venture company Khanij Bidesh India (KABIL). KABIL has signed an Exploration and Development Agreement with CAMYEN a state-owned enterprise of Catamarca province of Argentina for exploration and mining of five Lithium Brine Block in Argentina in an area of 15703 Ha.



Further an MoU has been signed between KABIL and Critical Mineral Facilitation Office (CMFO) Department of Industry Science and Resources (DISER) Government of Australia for carrying out joint due diligence and further joint investment in Li & Co mineral assets of Australia.

NCMM has provision of critical mineral processing parks for which there is budget provision of ₹500 crore. Further there is also budget provision of ₹15 billion for recycling. In addition, there are also provisions... for skill development and R&D activity support.

CoalMin completes phase 1 of LSI under Rashtriya Karmayogi programme

The Ministry of Coal (MoC) has successfully concluded Phase 1 of the Large-Scale Intervention (LSI) under the Rashtriya Karmayogi Programme aimed at fostering a deep-rooted sense of Seva Bhav (spirit of service) among officials up to the Director level. More than 120 officials actively participated in four interactive training sessions designed to strengthen their commitment to public service and nation building.

BP Pati, Joint Secretary & CBU Head Ministry of Coal, inaugurated the programme emphasising the pivotal role of public service in shaping the nation's future. In his address he stated that Public service



is the foundation of a progressive nation. This initiative goes beyond skill enhancement—it is a reaffirmation of our responsibility to creating meaningful change and positively impacting citizens' lives. Every official plays a crucial role in driving the country's progress.

The training sessions were held on February 27-28 and March 11-12 at the Civil Services Officers Institute New Delhi. Designed in an engaging and interactive format the sessions resonated deeply with participants offering valuable insights into policy formulation service delivery and citizen-centric governance.

Foundation stone laid for phase 2 of water project

Gautam Deb Mayor of Siliguri laid the foundation stone for the second phase of the mega water project in Fulbari. The event was attended by Ranjan Sarkar Deputy Mayor Pratul Chakraborty Chairman of the Siliguri Municipal Corporation (SMC) and other officials.

The project valued at approx. ₹511 crore under the AMRUT 2 scheme will be executed in three phases. The first phase is nearly complete. The second phase involves the construction of a pond in Fulbari to store water which will be sourced from Gajoldoba purified and distributed to wards via a pipeline.



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Telangana allocates ₹176 Bn for urban push

The Telangana government has earmarked over ₹176 billion for urban infrastructure and development projects under the 2025-26 budget reflecting the state's rapid urbanisation driven by IT growth and major infrastructure initiatives.

Finance Minister Bhatti Vikramarka highlighted the H-CITI plan aimed at improving urban infrastructure and mitigating traffic congestion. The first phase involves constructing 31 flyovers 17 underpasses and 10 road expansion projects with an investment of \$846 million.

The Musi Riverfront Development Project focuses on revitalising the Osmansagar and Himayatsagar reservoirs by supplying Godavari water through the Godavari Drinking Water Supply Scheme. Additionally, the Water Board has initiated the construction of four sewage



treatment plants (STPs) with a total capacity of 20 MLD to enhance wastewater management and water quality. To ensure timely execution of major projects including the Musi Riverfront Development Metro Rail Expansion Regional Ring Road Telangana Bhavan in Delhi and New Osmania Hospital Building the government has launched the SPEED initiative (Smart Proactive Efficient

and Effective Delivery).

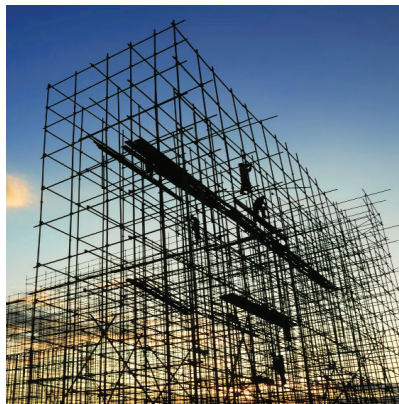
The Integrated Stormwater Drainage Project worth \$715 million aims to mitigate urban flooding and enhance Hyderabad's resilience. Meanwhile the ORR Phase-2 Water Supply Project is nearing completion to ensure a reliable drinking water supply within the Hyderabad Metropolitan Development Authority (HMDA) limits.

BMRCCL to expand network by 197 km

Bengaluru Namma Metro officials announced plans to expand the metro network further with a survey underway for a 197 km extension to the current network. Officials revealed that in addition to the ongoing expansion of existing routes new metro services will be introduced in regions including Ramanagara Bangalore Rural and Tumkur districts.

The BMRCCL is planning eight new routes with a major extension of the airport route up to Devanahalli. This extension will not only provide greater convenience for local residents but will also boost the area's economic activity. There are also reports suggesting that the expansion will positively impact the real estate market in Devanahalli.

The feasibility study for the 197 km expansion is expected to be completed by July 2025 with the



report to be submitted to the state government. The final approval for the routes will be decided by the state government although at least half of the proposed routes are expected to be approved.

Officials added that the Yellow Line of Namma Metro connecting RV Road to Bommasandra over 19.15 km is expected to begin operations by late April or May 2025.

Government launches Sagarmala 2.0

The 4th National Sagarmala Apex Committee (NSAC) meeting reviewed key projects under the Sagarmala Programme the flagship initiative of the Ministry of Ports Shipping & Waterways (MoPSW). The meeting focused on port-led development and strengthening India's maritime infrastructure. The Ministry is currently implementing 839 projects worth ₹5.79 trillion under Sagarmala with 272 projects completed at an investment of ₹1.41 trillion. Among these 234 port modernisation projects worth Rs 2.91 trillion are underway with 103 projects completed adding 230 MTPA capacity. Additionally, 279 connectivity projects worth ₹2.06 trillion have been taken up with 92 completed.





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Ohio Cat expands presence with three new locations

Ohio Cat, the authorised dealer of Caterpillar equipment in Ohio, northern Kentucky and southeastern Indiana, has recently expanded its presence by opening new rental store locations. These additions aim to enhance accessibility and support for customers across the region.

On January 2, 2025, Ohio Cat announced the opening of a new store in Washington Court House, Ohio. This facility offers rentals, sales, parts and service to meet the diverse needs of local industries.

On December 10, 2024, Ohio Cat opened a location in Upper Sandusky, Ohio. Situated at 1820 East



Wyandot Ave, this store also provides rentals, sales, parts and service offerings. Ohio Cat continues its expansion with the opening of a new rental store in Westerville, Ohio, on March 17, 2025. This location will further enhance accessibility for customers in the Columbus metropolitan area, offering a wide range of rental equipment.

ZQUIP modular power lets job sites switch from diesel to EV

MOOG Construction's energy skunkworks ZQUIP made headlines last year by bringing the cordless power tool battery model to the world of industrial-grade heavy equipment – now, they're making it even easier for job sites to make every kilowatt count by enabling them to switch from diesel to electric and back, on the same machine.



Construction sites, demolition crews, and landscapers trust their cordless tools – and they've often wondered aloud when the EV industry will catch up with the hardware space. MOOG's ZQUIP seemed to be the first Western company to get on the ball, developing a proof-of-concept model built on a Caterpillar CAT 308 8-tonne excavator that took the conventional diesel machine into a quiet, 140 kW, zero-emissions excavator ready to go to work on urban projects with strict noise regulation challenges or on environmentally sensitive zero drip job sites.

HD Hyundai CE adds to wheeled excavator lineup

HD Hyundai Construction Equipment North America is adding the HW100A to its lineup of wheeled excavators. Digging to a depth of 13 feet 11 inches and delivering 101 net hp, the Hyundai HW100A can handle a variety of applications but is particularly suited for jobs where the ability to move on paved surfaces is critical. Its compact size, 360-degree swing capability and articulated boom allow it to work in congested and tight spaces.



This new Hyundai compact excavator features a cab with a full-length glass door for ease of entry and egress, as well as a heated, air-suspension seat and other comfort-related features. For safety, the HW100A also comes standard with right and rearview cameras, LED light package.

Yanmar's vision for electric CE

The future, according to Yanmar, is smart electrification. If an off-highway electric vehicle cannot go off-site to be charged because the operator cannot afford any downtime, Yanmar will send a

charger to the OHEV. Yanmar, a Japanese engine and heavy machinery manufacturer, has released its new Product Vision, which describes a number of electrified construction vehicles designed for indoor work and renovation projects.

Proventia debuts new LFP battery packs

Proventia, a supplier of emission control systems, thermal insulation components and batteries, has introduced its new Proventia Energy LFP-based battery pack. Lithium iron

phosphate (LFP) technology is a good option for heavy machinery due to its cost efficiency and long lifespan, the company said. The high-energy, high-voltage battery systems are suitable for continuous operation over extended periods.

Bobcat expands lineup with 6 new machines

Bobcat Company has expanded its product lineup with the addition of four new large wheel loaders and two new large excavators, available at select North American Bobcat dealerships in mid-Q2 2025. All six new models – E220, E245, L205, L235, L255, L285 – are backed by a 3-year/5,000-hour full coverage warranty.

New to the Bobcat lineup are the L205, L235, L255 and L285 large wheel loaders. These loaders are purpose-built for big load-and-carry tasks, offering a powerful solution for construction, agriculture, manufacturing and more.

From building infrastructure to



moving materials or doing expansive site prep, Bobcat large wheel loaders offer the strength, comfort and reliability needed to tackle the toughest challenges.

Built for high-production lifting, the large wheel loaders' bucket capacity varies by model: 2.5 cubic yards for the L205, 3 cubic yards for

the L235, and 3.5 cubic yards for both the L255 and L285.

The L235, L255 and L285 come standard with three transmission modes so operators can customize their performance for unique working conditions with the following modes:

- Manual — Provides precise speed control
- Auto 1-4 — Automatically shifts up or down depending on power and torque required for the task
- Auto 2-4 — Offers performance and flexibility for lighter-duty tasks with manual kickdown that automatically shifts between gears 2 through 4

Kirby-Smith becomes first Trimble tech outlet in the US

Trimble announced Kirby-Smith Machinery Inc. as the first Trimble Technology Outlet based in the United States. Kirby-Smith Machinery will now sell and support Trimble grade control technology directly to customers using Komatsu, Takeuchi and Hamm earthmoving equipment. Contractors can now purchase Trimble technology from Kirby-Smith, including the Trimble Works Subscription, which provides an easy entry-point,



new part of Trimble's evolved civil construction distribution strategy. By adding authorised resellers representing a wide variety of manufacturers to the Trimble distribution channel, it becomes easier for users of all

predictable monthly payment, upgrade flexibility, software and firmware maintenance and more.

Trimble Technology Outlets are a

machine types to purchase, install and use Trimble technology for improved jobsite productivity and profitability, according to Trimble.

Weisbaum to head New Holland

Brian Weisbaum has been named the new head of New Holland Construction. He replaces Tyler Mills, who led the North American business between 2020 and 2024. Mills will move into a new CNH position as head of

construction parts commercial, North America, overseeing parts and aftersales commercial operations for Case and New Holland Construction brands. Weisbaum formerly headed network development and sales support, and global customer experience.

LG ES, Bobcat to develop batteries for CVs

LG Energy Solution will provide its lithium-ion battery cells or modules, while Doosan Bobcat will add battery management systems and package them into standard battery packs optimised

for compact construction equipment. The companies also plan to discuss expanding the battery packs and solutions from construction equipment such as loaders and excavators to agricultural and landscaping equipment, including tractors.





Electrification Sparks Growth

With a 6.7 per cent growth rate, the market for wheel loaders is expanding rapidly, driven by the demand for sustainable, energy-efficient solutions.

India is undergoing an infrastructure revolution, and at the centre of this transformation is a growing commitment to sustainability. Amidst expressways, smart cities, and mega ports, a quieter, more energy-efficient machine is starting to dominate job sites: the electric wheel loader.

Traditionally reliant on diesel, the construction equipment industry is beginning to embrace electrification. Among all the categories of off-highway equipment, electric wheel loaders have emerged as one of the most promising segments in 2023 and 2024. Though electric cars and buses have captured the public imagination, the rise of electric construction machinery—particularly wheel loaders—signals a shift that could redefine project execution across India.

According to global forecasts,

4,535 full-electric battery electric wheel loaders were registered in 2023, with a jump to over 12,000 expected in 2024. The Asia-Pacific region, led by China, is taking the lead in manufacturing, but India is fast catching up. Industry experts estimate the global electric wheel loader market will surpass 40,000 units by 2030, with India poised to emerge as one of the largest growth drivers.

“As of 2024, the Indian wheel loader market is valued at approximately \$1.1 billion,” says Nischal Mehrotra, Sr. Vice President – Sales and Marketing, LiuGong India. “This growth is driven by strong



Nischal Mehrotra
Sr. Vice President
– Sales and
Marketing,
LiuGong India

demand across construction, mining, and industrial sectors. Electrification is the next logical step, particularly given the environmental and economic benefits.”

These benefits include zero fuel consumption, reduced emissions, lower noise, and reduced operating costs. LiuGong, a market leader in India, has commercially launched its electric wheel loader model 856HE MAX. With a 423 kWh lithium iron phosphate battery, it delivers up to 11.7 hours of operation in light-duty conditions and supports fast charging within 1.7 hours. This model features a fully electric drivetrain, energy recovery systems, and intelligent battery management—enabling a smoother, greener operation.

Environmental advantages

Electric wheel loaders bring a host of environmental and economic benefits to the construction industry. The transition from traditional diesel-powered machines to electric equipment significantly reduces greenhouse gas emissions. This is especially crucial as India works towards its ambitious net-zero emission goals, set for 2070.

Moreover, electric wheel loaders contribute to lowering the carbon footprint of construction projects. These machines operate more efficiently, without the need for costly and polluting fuel, making them an attractive option for project owners looking to reduce their long-term operating expenses.

One of the key advantages of electric wheel loaders is their ability to reduce noise pollution. In bustling urban environments, construction noise is a significant issue, especially in areas near residential zones. The quieter operation of electric loaders helps address this problem, making them ideal for city construction projects, particularly in densely populated areas.



The growth of electric wheel loaders in India is underpinned by broader infrastructure programmes like Bharatmala, Sagarmala, etc.

WHAT'S DRIVING THE SHIFT?

Several macro factors are propelling the electric wheel loader segment in India:

- **Government push for clean tech:** CEV IV norms have already kicked in, and with CEV V expected by 2026, the pressure is mounting. Electric wheel loaders offer a future-proof solution.
- **Rising diesel prices:** Fuel cost savings from electric machines are substantial. According to Mehrotra of LiuGong, “Customers are saving significantly by shifting to electric loaders, especially in port and cement applications.”
- **Equipment-as-a-Service (EaaS):** OEMs like SDLG are innovating in financing and ownership models. Pay-per-use is making electric loaders more accessible to mid-sized contractors.
- **Telematics and remote monitoring:** Telematics systems from Caterpillar, SDLG, and Volvo allow real-time diagnostics and tracking, giving customers more control and confidence in electric models.
- **Urban and industrial use cases:** Electric loaders are ideal for warehouses, cement plants, and batching plants where shorter cycles and confined working conditions suit battery-powered machines.

Adoption of electric machines

The enthusiasm for electric machines is not limited to LiuGong. SDLG, a Volvo Group company, has made headlines by inaugurating a new manufacturing facility in Peenya, Bengaluru, which now produces electric wheel loaders locally. Their battery-electric model, the L956HEV, introduced at Bauma Conexpo 2023, has started working in various industries across India under an equipment-as-

a-service model. According to **Surat Mehta, Head of SDLG Business in India**, “We’re seeing strong interest in electric loaders from ports, batching plants, and industrial units. The shift to electric aligns with our long-term vision to offer sustainable, low-emission solutions.”



Surat Mehta
Head of SDLG
Business in India

The World's Top 50 Construction OEMs

2024 Rank	Change	Company	Country	Sales (US\$ Million)	Share of Total
1	0	Caterpillar	US	41000	16.80%
2	0	Komatsu*	JP	25302	10.40%
3	1	John Deere	US	14795	6.10%
4	-1	XCMG	CN	12964	5.30%
5	2	Liebherr	DE	10342	4.20%
6	-1	Sany	CN	10224	4.20%
7	0	Volvo Construction	SE	9892	4.10%
8	0	Hitachi Construction*	JP	9105	3.70%
9	1	JCB**	UK	8082	3.30%
10	1	Doosan Bobcat	KR	7483	3.10%
11	-2	Sandvik Mining and Rock	SE	7271	3.00%
12	0	Zoomlion	CN	5813	2.40%
13	0	Metso Outotec	FIN	5683	2.30%
14	0	Epiroc	SE	5591	2.30%
15	0	Terex	US	5152	2.10%
16	0	Oshkosh Access (JLG)	US	4990	2.00%
17	0	Kubota*	JP	4295	1.80%
18	2	CNH Industrial	IT	3900	1.60%
19	0	Liugong	CN	3842	1.60%
20	1	HD Hyundai (Develon)	KR	3570	1.50%
21	2	HD Hyundai CE	KR	2930	1.20%
22	0	Kobelco*	JP	2889	1.20%
23	1	Wacker Neuson	DE	2872	1.20%
24	2	Manitou Group	FR	2675	1.10%
25	0	Palfinger	AT	2651	1.10%
26	-5	Sumitomo Heavy*	JP	2585	1.10%
27	1	Fayat Group	FR	2272	0.90%
28	3	Manitowoc	US	2228	0.90%
29	-1	Tadano*	JP	1996	0.80%
30	-1	Hiab	FIN	1586	0.70%
31	0	Shantui	CN	1472	0.60%
32	-1	Lonking	CN	1469	0.60%
33	-2	Takeuchi*	JP	1459	0.60%
34	NEW	LGMG	CN	1400	0.60%
35	-2	Astec Industries	US	1338	0.50%
36	-2	Ammann**	CH	1284	0.50%
37	-1	CRCHI	CN	983	0.40%
38	1	Bauer	DE	931	0.40%
39	1	Dingli	CN	881	0.40%
40	-2	Skyjack**	CA	866	0.40%
41	-1	Sunward	CN	849	0.30%
42	2	Haulotte Group	FR	830	0.30%
43	NEW	Tonly	CN	818	0.30%
44	3	Hidromek**	TR	757	0.30%
45	-1	Sennebogen**	DE	747	0.30%
46	0	Bell Equipment	ZA	745	0.30%
47	-2	Yanmar**	JP	728	0.30%
48	-3	Merlo**	IT	692	0.30%
49	-2	Lovol	CN	678	0.30%
50	NEW	Sinoboom	CN	528	0.20%

This growing shift towards electrification is not just a short-term trend. As the demand for electric machinery continues to rise, OEMs are investing heavily in research and development. From the development of better batteries to the creation of smarter digital solutions for machine monitoring and maintenance, the industry is poised for an electric transformation.

The growth of electric wheel loaders in India is underpinned by broader infrastructure programmes like Bharatmala, Sagarmala, and the National Infrastructure Pipeline. These initiatives, which focus on upgrading the country's roadways, ports, and overall infrastructure, require high-capacity, high-productivity machines—and electric loaders are proving they can deliver.

Recently, in line with “Har-it Sagar” Green Port Guidelines, Deendayal Port Authority (DPA) has taken another significant step towards sustainable port operations by supporting the deployment of four SDLG L956HEV electric wheel loaders by Swayam Shipping Services. DPA has actively facilitated the integration of green technologies, extending full collaboration for the installation of an electric vehicle charging station inside the dock area. This will ensure the seamless operation of these electric loaders and encourage further adoption of clean energy solutions in port activities.

“Infrastructure is the backbone of India's growth, and the demand for efficient, sustainable material-handling equipment is rising rapidly,” says **Amit Bansal, Director – Sales & Marketing, Building Construction Products (BCP) Division, Caterpillar India.** “While electric wheel loaders are still new to India,



Amit Bansal
Director – Sales & Marketing,
Building Construction Products (BCP) Division,
Caterpillar India

customer interest is increasing, particularly in sectors like mining where emission control is crucial.”

Caterpillar India’s Hindustan 2021E remains the best-selling loader in the country, albeit diesel-powered. It’s equipped with advanced telematics and ergonomic features, but the company is actively investing in electrification technologies. “We are committed to technology-enabled solutions that increase customer loyalty and reduce operational costs,” says Bansal.

As these infra projects expand, the need for modern, sustainable equipment like electric wheel loaders will only grow. Companies are beginning to see these machines as key enablers of their projects, offering both economic and environmental benefits. This trend will likely accelerate as

KEY BENEFITS OF ELECTRIC WHEEL LOADERS

- **Zero fuel consumption:** Reduced dependency on diesel cuts operating costs and environmental impact.
- **Lower emissions:** Zero tailpipe emissions, contributing to cleaner air.
- **Quieter operations:** Reduced noise levels make these machines ideal for sensitive environments.
- **Cost-efficiency:** Reduced fuel consumption and fewer maintenance needs translate to lower operational costs.

more projects adopt green building standards and sustainability goals.

Battery-electric wheel loaders also bring unique advantages in industrial settings such as warehousing, ports, and cement plants. These environments, where loaders operate in confined spaces with shorter duty cycles, are ideal for electric machines. Their low noise and zero emissions make them especially attractive in indoor or sensitive environments.

In warehousing, for instance, where space is often at a premium, electric wheel loaders are easier to maneuver. Their ability to charge quickly also means they can be operational for longer periods during the day, reducing downtime and increasing productivity.

Ports, which often operate under strict environmental regulations, stand to benefit from the adoption of electric loaders. The zero-emission



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Global revenues for electrified wheel loader powertrain components are expected to reach \$450 million in 2024.

nature of these machines makes them ideal for use in port environments, helping to reduce air pollution and meet sustainability standards.

JCB India also entered the electric wheel loader space with its 403E model. It boasts a 20kWh lithium-ion battery pack and delivers productivity comparable to its diesel-powered counterpart. It supports multiple charging options, including off-board rapid charging that can fully power the machine in just two hours. This loader was engineered to support a full working day or up to five hours of continuous mixed-duty use—ideal for urban job sites.

Even BEML has jumped into the game, leveraging its R&D to develop CEV Stage IV compliant wheel loaders like BL200-1, BL30-1, and BL40, while working on electric variants that align with national emission goals.

Challenges and solutions

The adoption curve, however, is not without challenges. Charging infrastructure is still developing, and the high upfront cost of electric machines can deter small and mid-sized contractors. There is also a learning curve related to maintenance, operations, and optimal usage. Yet, OEMs are addressing these issues through innovative business models like pay-per-use, improved telematics, and training programmes.

“Electrification is not just about installing a battery in place of an engine,” says **Dimitrov Krishnan, Managing Director, Volvo Construction Equipment India**.

“It’s about reimagining the entire ecosystem—from charging and service to operator



Dimitrov Krishnan
Managing Director, Volvo Construction Equipment India

OVERCOMING THE BARRIERS

- **Charging infrastructure:** Expanding charging stations at strategic locations to support electric machinery.
- **Upfront costs:** Implementing business models like pay-per-use or leasing options to make electric loaders more affordable for small contractors.
- **Training and support:** Offering operator training programs and service packages to help contractors make the transition smoothly.

comfort and digital monitoring. We believe the players taking bold steps now will lead the market by 2030.”

The path ahead

Indeed, India’s electric wheel loader market is now at an inflection

point. What was once considered a niche product is gaining mainstream traction. LiuGong's 856HE MAX, SDLG's L956HEV, and future models from Caterpillar and Volvo represent a powerful shift in the mindset of India's construction ecosystem.

The numbers reinforce this optimism. Global revenues for electrified wheel loader powertrain components are expected to reach \$450 million in 2024. Batteries alone account for \$140 million, with motors, inverters, and onboard chargers forming the rest. As electrification gains momentum in India, this market will only expand—creating opportunities not just for OEMs but also for battery suppliers, infrastructure providers, and digital solution developers.

For India, the road to net-zero emissions must include heavy ma-



Ports, which often operate under strict environmental regulations, stand to benefit from the adoption of electric loaders.

chinery. And with electric wheel loaders making inroads into mines, cities, plants, and ports, that road is already being paved—quietly, cleanly, and powerfully. As Krishnan puts it, “It’s

not about who gets there first. It’s about who stays the longest. And electric wheel loaders are here to stay.”

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India's Trucking Transformation



India's trucking industry is undergoing a major transformation, driven by advancements in technology, larger vehicles, sustainability efforts, and a booming mining and infrastructure sector, shaping the future of dump trucks in the country.

India's dump truck market is an ever-evolving sector, influenced by a blend of infrastructure development, coal mining demand, and shifts in government policies. Over the years, the market has seen remarkable fluctuations, with demand driven by a variety of factors including coal mining activities, infrastructure projects, and regulatory changes. In 2021, the market saw its highest sales figures in more than a decade, with nearly 700 dump trucks sold. However, the volatility in sales trends makes the

market more dynamic, and understanding its intricacies requires looking beyond simple numbers to comprehend its core drivers and future potential.

Role of mining and coal production

Dump trucks in India have historically been in high demand due to the expansive mining industry, particularly coal mining. Coal India, along with its subsidiaries, remains one of the largest buyers of these machines. The mining sector's

reliance on dump trucks is a central characteristic of the market's growth patterns. "The sales of dump trucks in India are largely reflective of the buying cycles of Coal India and similar organisations," explains a market expert. "These companies typically consolidate their requirements over several years and invite tenders at intervals, with delivery often stretched over multiple years." This buying pattern creates a ripple effect, where a spike in sales may not necessarily represent a corresponding immediate demand for machines.

The Indian government's focus on enhancing coal production for power generation has had a direct impact on dump truck sales. The move toward reducing coal imports by boosting domestic production has led to increased mining activity, which, in turn, requires a larger fleet of dump trucks for transporting coal from mines to destinations, including power plants and storage units. Given that many of these mines are located in remote areas that lack railway connectivity, road transport using dump trucks is often the most viable solution.

According to **Shantanu Roy, Chairman and Managing Director, BEML**, one of India's prominent manufacturers of dump trucks, "The increasing demand for coal to fuel the country's energy needs is creating a positive outlook for the dump truck market. Our recent order with Central Coalfields Limited highlights the sector's potential, and BEML is committed to delivering state-of-the-art mining solutions to support India's growth."

The demand for dump trucks is not limited to coal mining but extends to other minerals such as iron ore and bauxite. Areas like Odisha, which are rich in iron ore deposits, see significant usage of larger dump trucks.

Transition to larger dump trucks

A noticeable trend in India's dump truck market has been the shift towards larger capacity trucks. Since 2015, the market has seen a rise in demand for trucks in the 51-60 tonne range, with a gradual but firm move towards the 81-100 tonne category by the end of 2019. This shift reflects the



Shantanu Roy
Chairman and
Managing
Director, BEML



Manufacturers are increasingly focusing on innovation to improve efficiency, safety, and environmental sustainability.

growing demands of the mining sector, where larger trucks are increasingly needed for more efficient transport of materials over long distances. The preference for larger trucks is linked to better fuel efficiency and the ability to carry heavier payloads, thereby optimising operational costs.

Industry insiders attribute this trend to the rising scale of operations in mining and construction. "The nature of projects is becoming larger and more complex, requiring heavier-duty vehicles," says **Gagandeep Singh Gandhok, Executive Vice President, VE Commercial Vehicles (VECV)**, a company with a strong footprint in the heavy-duty truck market. "We are witnessing a shift in customer preference towards high-capacity tippers and dump trucks to handle larger volumes, especially in remote mining areas."

This growing appetite for larger trucks is not just limited to the mining sector. The expansion of infrastructure projects in India has

spurred demand for robust and high-capacity dump trucks capable of transporting construction materials like sand, gravel, and cement. These trucks are critical to completing large-scale projects such as road construction, dams, and urban infrastructure developments.

Technological innovations and sustainability

With the mining and construction sectors evolving rapidly, so too are the technological capabilities of dump trucks. Manufacturers are increasingly focusing on innovation to improve efficiency, safety, and environmental sustainability.

For instance, companies like Propel are leading the charge with innovations such as electric dumper trucks. According to **V Senthilkumar, Managing Director, Propel Industries**, "Our electric dumpers are designed to reduce carbon emissions, making them a sustainable alternative to traditional diesel-powered trucks. These vehicles are equipped with advanced electric motors, energy



Gagandeep Singh Gandhok
Executive Vice
President, VE
Commercial
Vehicles (VECV),



V Senthilkumar
Managing
Director, Propel
Industries



Many manufacturers are also focused on building eco-friendly and energy-efficient machines, ensuring that they meet both operational and environmental standards.

recovery systems, and smart monitoring systems that allow real-time performance tracking.” Propel is preparing to launch its electric dumper trucks within the next 18 months, a move that aligns with global sustainability goals and positions India as a player in the electric vehicle space within the mining industry.

Sustainability is not limited to the introduction of electric vehicles but extends to overall product design. Many manufacturers are also focused on building eco-friendly and energy-efficient machines, ensuring that they meet both operational and environmental standards. As government regulations continue to evolve, particularly with the push towards Bharat Stage (BS) VI standards, manufacturers are compelled to develop products that meet the highest environmental criteria.

In line with these advancements, Kirloskar Oil Engines (KOEL) launched cutting-edge engineering innovations under the Kirloskar Industrial brand. Among the innovations, Kirloskar presented India’s only 1100 HP engine specifically designed for mining

applications, such as dump trucks and excavators, emphasising the company’s role in supporting the mining industry with high-performance, locally manufactured solutions. Additionally, they introduced BS-V engines for construction applications like backhoe loaders and cranes, which offer improved efficiency and reduced emissions compared to older models, meeting the latest emission norms while providing easy maintenance.

Rahul Sahai, CEO, Kirloskar Oil Engines, emphasised, “The range of Kirloskar Industrial’s products is a testament of our strong legacy and our commitment to power India’s industrial growth. From India’s first CNG-powered air-cooled engines to developing the only locally manufactured 1100 HP mining engines, we will continue to bring the most practical indigenously developed products for our customers.”

Sany India’s SKT105E Electric Dump Truck is the first fully electric

open cast mining truck. Designed to meet the rigorous demands of open-cast mining operations, this indigenous off-highway dump truck features a new edition of innovation in construction and mining equipment manufacturing. **Deepak Garg, Managing Director, Sany India and South Asia**, said, “The company is contributing to the nation’s vision of sustainable development and operational efficiency enhancement by localising production and introducing cutting-edge electric technology.”

Manufactured with a blend of local expertise and global innovation, the truck is claimed to have exceptional energy efficiency and cost-effectiveness, with an impressive payload capacity of 70 tonne. The company also promises to stand as a powerhouse asset for mining enterprises across the nation. The truck is innovatively designed for zero-emission operation with an advanced electric propulsion system, ensuring optimal performance while



Rahul Sahai
CEO, Kirloskar Oil
Engines



Deepak Garg
Managing
Director, Sany
India and
South Asia



reducing the carbon footprint. The manufacturer aligns it with an environmentally friendly solution for Indian mining sites and claims to promote greener technologies.

Increasing focus on safety and comfort

Alongside technological innovations, safety and driver comfort are becoming critical factors in the design of dump trucks. With harsh operating environments and long shifts, particularly in mining operations, there is a growing need for trucks that provide better ergonomics and enhanced safety features.

For example, BEML's BH60M rear dump trucks are equipped with advanced safety features such as a 360-degree rear camera, an automatic fire suppression system, and a driver-fatigue monitoring system. These additions not only enhance the safety of operators but also ensure the longevity of the equipment.

As **Kartik Ramanan**, Executive Director – Global Off-Highway, Customer Support & Service Engineering at Allison



Kartik Ramanan
Executive Director
– Global Off-Highway,
Customer Support & Service
Engineering at
Allison
Transmission

notes: "In the mining sector, several key trends are emerging. First and foremost, safety has become a top priority. There's a growing focus on ensuring that operators are comfortable and can work safely, which is driving new regulations and restrictions on the types of equipment used. Additionally, new technologies, such as autonomous vehicles in mining operations, are being explored to further improve safety. Improving



India's dump truck market stands at a crossroads, shaped by a combination of mining, technological innovation, and evolving government policies.

driver comfort is directly linked to productivity and has led to a shift in focus from just the upfront price of a vehicle to its total cost of ownership."

Market outlook: Volatility and growth

Despite the increasing demand for dump trucks, the market in India remains volatile. The sales trend, largely dictated by the purchasing cycles of large organisations like Coal India, makes it difficult to predict annual demand with certainty. However, experts are optimistic about the future. "While there is volatility, the long-term outlook for the dump truck market in India is positive," says an industry analyst.

The market's growth is also supported by financing options, which make it easier for customers to acquire these expensive machines. The availability of financing from financial institutions has been a key enabler of growth. As more companies in the mining and construction sectors seek to expand their fleets, access to capital has become a critical factor in their decision-making process.

Conclusion

India's dump truck market stands at a crossroads, shaped by a combination of mining, infrastructure development, technological innovation, and evolving government policies. As the demand for larger, more efficient vehicles increases, the market is witnessing a transformation driven by the rise of electric vehicles, advancements in safety and driver comfort, and the push for environmental sustainability.

While the market remains volatile due to the cyclical nature of demand and the reliance on large players like Coal India, the future looks promising. With technological advancements, a growing focus on sustainability, and continued government support for infrastructure and energy sectors, India's dump truck market is poised for sustained growth. Manufacturers and operators that can adapt to these changes and stay ahead of emerging trends will be well-positioned to capitalise on the opportunities ahead, cementing India's place as a leader in the global construction and mining industries.





“BEML is targeting a ₹180 billion order book by the end of FY25.”

A key player in heavy equipment for defence, rail, metro and mining, BEML is shaping India's infrastructure growth. **Shantanu Roy, Chairman & Managing Director**, speaks to **PRATAP PADODE**, Founder and Editor-in-Chief, on order books, revenue and future expectations.

Which sectors do you see driving BEML's future growth, given its diverse revenue streams?

There is a growing demand in the rolling stock market, which encompasses various types of rail and metro vehicles. The sector presents tremendous opportunities, with ongoing projects like the Vande Bharat trains and other variants, including Amrit Bharat and Amrit Metro.

The metro market, particularly in Tier-1 and 2 cities, offers promising growth potential. We believe that once the delayed orders, and the electric multiple unit (EMU) local trains are back on track, the share of rolling

stock in the railway and metro segments will see significant growth. With these prospects on the horizon, we remain optimistic about receiving substantial orders in coming years. The rail and metro sector offers immense growth potential, both in India and across global markets. Domestically, ongoing metro rail expansions in cities like Chennai, Bengaluru, Delhi, Bhubaneswar, Patna, Nagpur, Pune, Thane, Kochi and Hyderabad signal a robust demand for advanced rolling stock. As a trusted partner in India's transportation landscape, BEML is uniquely equipped to address this demand, leveraging our extensive infrastructure and highly indigenised supply chain aligned with the Make in India initiative.

As on Feb 2025, BEML's order book stood at ₹150 billion (bn), following the ₹36.58 bn order from Chennai Metro Rail. What are your expectations for the remainder of the quarter and the mix of orders you anticipate?

BEML's year-end order book is expected to be split with 50 per cent from rail and metro, 30 per cent from defence, aerospace and maritime, and 20 per cent from mining. While railway orders performed well last year, the sector's contribution this year will be limited, as many orders are not executable in the current year. Mining will drive revenue for FY2024-25, with defence contributing around 30 per cent and mining making up the



► Shantanu Roy receiving the Equipment India Person of the Year 2024 award from Pratap Padode.



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remaining 50 per cent. The railway sector is expected to account for about 20 per cent.

Looking ahead, a shift in sectoral contributions is expected from FY25–26, with significant growth in the rolling stock market, driven by projects like Vande Bharat in the commuter rail segment. The metro market in Tier-1 and 2 cities also holds strong potential.

BEML has secured the contract to build India's first indigenously manufactured bullet trains, worth ₹8.66 bn. What is current status?

We have secured a contract from Integral Coach Factory (ICF), Chennai, to design, manufacture and commission India's first high-speed trainsets. As part of this historic project, we will build two trainsets, each comprising eight cars. This development order is a collaborative effort between NHRCL, ICF, Railway Board and BEML.

These indigenously designed trainsets will be capable of reaching a speed of 280 km/h. They will be produced at BEML's state-of-the-art Bengaluru rail coach complex, with delivery scheduled for the end of 2026. Designed with fully air-conditioned chair cars, the trains will feature reclining, rotatable seats, accessibility provisions and advanced infotainment systems, ensuring a premium travel experience.

With a ₹9 bn capital investment, how is BEML strategising its re-entry into the construction equipment market? What are your plans to tackle competition?

BEML's investment plan for the upcoming fiscal year, following its re-entry into the construction equipment market, aims to significantly boost market share.

The strategy focuses on integrating advanced technologies like AI, IoT and automation into

equipment, alongside increased R&D to foster innovation and improve existing products. Manufacturing capacity will expand to meet demand, with expertise from the defence sector applied to create military-grade machinery. BEML plans to differentiate itself through a customer-centric approach, targeted marketing and a strong brand identity while employing flexible pricing to remain competitive. Additionally, existing equipment will be relaunched with enhanced features and technologies. This strategy is designed to drive growth and solidify BEML's position in the market.

What strategic initiatives drive teamwork, R&D and leadership at BEML?

Starting FY2024–25, BEML has undertaken a major organisational restructuring to align with evolving market demands and strengthen its operational efficiency. It is now divided into 12 Strategic Business Units (SBUs) and 2 micro-SBUs, with dedicated units for Commuter Rail and Metro Rail.

This structure is designed to accelerate decision-making, drive efficiency and nurture a sense of ownership among teams, laying the foundation for a strong leadership pipeline and excellence across functions.

Our people are the cornerstone of our success. To bolster teamwork and innovation, we are aggressively hiring talent at various levels, including graduates from premier institutions such as IITs and NITs. Addressing workforce diversity and attrition are also high on our agenda. In parallel, we are enhancing our infrastructure to scale up research and execution capabilities, ensuring our readiness to meet growing demands in heavy engineering.

Innovation is the driving force

behind our growth and success. To stay ahead of the curve, we have set up dedicated teams like the Futuristic Product Innovation and Incubation Centre and the Corporate Technology Planning and Alliance Management Group, which focus on nurturing and advancing innovation. Our goal is to attract the brightest minds who can contribute fresh perspectives and drive forward-thinking advancements.

By focusing on emerging talent, we aim to infuse our R&D efforts with cutting-edge ideas and technological insights that align with both current needs and future aspirations.

BEML has undergone significant transformations over the past year. Now, with the launch of your new brand identity, what does this rebranding represent, and how does it align with your growth trajectory and future vision?

We have proudly unveiled our new brand identity, 'Infinix', at Aero India, with the esteemed presence of Admiral Dinesh Kumar Tripathi, Chief of Naval Staff (CNS), who graciously officiated the launch. Infinix marks a bold evolution—a symbol of limitless aspirations, agility, and excellence. The freed Phoenix, breaking beyond its circular boundary, represents BEML's unwavering commitment to innovation across Air, Land, and Sea.

Its outstretched wings embody the company's relentless pursuit of breakthrough solutions in engineering and mobility. The name 'Infinix', a fusion of 'Infinity' and 'Phoenix', draws inspiration from aerodynamic precision—reflecting BEML's expertise in cutting-edge technology and future-ready solutions. The dynamic, fluid form of the logo represents power, speed, and a forward-thinking vision that propels BEML toward redefining industries.





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“India has been an essential market for many years.”

Nicole Schmitt, Exhibition Director, bauma 2025, provides insights into the expected number of exhibitors and visitors at bauma 2025.

bauma is the largest and most significant event for the construction industry worldwide. What can visitors expect at the 34th edition of the fair in 2025?

bauma 2025 will once again bring together global industry leaders, cutting-edge technologies, and forward-thinking innovations. This edition focuses strongly on sustainability and digitalisation. Visitors can explore the innovation hall LABO, where future topics take center stage, discover alternative drive concepts in Halls A3 and A4, and experience the ‘Mining Inside’ segment. Additionally, the outdoor exhibition will highlight climate-neutral solutions, offering a glimpse into the future of construction and mining.

Can you provide insights into the expected number of exhibitors and visitors at bauma 2025, and which regions are showing the most interest in participating?

We expect more than 3,500 exhibitors from 57 countries to showcase their latest machinery and technologies in 614,000 sq m of exhibition space. Attendance is expected to reach approximately 5,50,000 visitors from around the world. Investment in modern infrastructure projects is currently increasing, particularly in regions such as the Middle East, India, and Africa. We therefore expect growing interest from these regions in particular, as well as from Latin America, notably

Argentina, Chile, Colombia, and Peru, due to the strong mining industry there.

bauma consistently attracts industry leaders from all over the world. What strategies does Messe Muenchen employ to ensure such strong international participation and engagement?

bauma has been around since the 1950s, so it has a very long tradition and has become the undisputed heartbeat of the industry over the years. Since its first edition, bauma’s long-standing success is built on continuous innovation and close industry collaboration. By consistently addressing key industry trends and challenges, we ensure the event remains relevant. Additionally, our international expansion through bauma events in China, India, and Brazil strengthens our global reach. These platforms increase awareness of bauma Munich and attract a highly diverse audience, reinforcing bauma’s position as the leading trade fair in the sector.

India has a strong presence in the construction and mining sectors. How is bauma 2025 specifically encouraging more Indian companies to participate or showcase their innovations?

India has been an essential market for many years, and the growth of bauma CONEXPO India has significantly increased awareness of the bauma brand. More and more Indian companies recognise bauma Munich as a crucial platform for entering international markets. Through partnerships with trade associations and targeted outreach,



we encourage Indian businesses to showcase their latest innovations, expand their global footprint, and connect with key players in the industry.

Are there any special programmes, forums, or collaborations planned for Indian companies at bauma 2025, especially to highlight their role in global construction trends and sustainable building solutions?

There are no country-specific programmes at bauma in Munich. However, exhibitors can showcase their products and solutions on the Exhibitor Stage—though all slots are already fully booked.

Additionally, our partner, the VDMA, is organising an India Day at bauma in cooperation with the Indian construction machinery association ICEMA and Messe München on Wednesday, 9 April, from 3:00 to 5:30 pm. The event will take place at the VDMA meeting rooms at Press Centre East.

In addition to focusing on the prospects of the Indian construction machinery market, this time the main aim is to highlight business prospects for European suppliers through localisation in India. For this reason, representatives of supplier companies are particularly invited to attend the event. The reception in the VDMA Lounge after the event will offer an opportunity for individual discussions with high-level representatives of Indian construction equipment OEMs.

With sustainability being one of the core themes for bauma 2025, how are you integrating climate neutrality and sustainable practices into the event itself?

Sustainability is in Messe München's DNA. Our photovoltaic systems on the hall roofs generate around 2.6 million kWh of green electricity per year, saving around 1,460 tons of CO₂ per year over the

Digitalisation, automation, and sustainability will play an even greater role in shaping the event.

past 24 years. Since 2009, we have reduced our CO₂ emissions by 75 per cent. By 2020, we will be using 100 per cent green electricity, and for the past 20 years, a significant portion of our heating needs have been met by environmentally friendly district heating. We also encourage exhibitors and visitors to travel to bauma by public transport, which is included in the ticket price this year. For those arriving by electric car, numerous charging stations are available in our parking garages.

What specific innovations can we expect to see at bauma 2025?

There will be many innovations in all of our key topics. What we have heard from our exhibitors in advance is that there will be a lot of developments, especially in the area of climate neutrality and in the area of alternative drives. The focus here is primarily on CO₂ reduction. There are even exhibitors who are showing only electrically powered machines. A few years ago, such developments seemed distant, but today they are becoming a reality. Visitors can expect groundbreaking advancements that will redefine efficiency, emissions reduction, and the future of construction equipment.

Networked construction is one of the major themes for bauma 2025. How is this changing the way the construction industry operates and what role will digitalisation play in this shift?

Digitalisation is a key driver across industries, and construction is

no exception. Networked construction integrates digital tools with traditional methods, enabling clearer communication, real-time collaboration, and improved project planning. Digitalisation plays a critical role in leveraging advanced software, IoT devices, and data analytics to increase efficiency, optimise resource utilisation, and improve safety standards. At bauma 2025, several exhibitors will demonstrate remote-controlled construction machinery using advanced technologies. Most setups enable operators and visitors to control machines from a booth in Munich via high-speed 5G networks, real-time video streaming, and precise sensor systems. Caterpillar i.e. will showcase the remote operation of a machine in a quarry, while Kobelco's K-DIVE system will allow users to control excavators in Denmark and Japan. Hyundai will present the remote operation of a construction machine in Belgium, and Sennebogen will enable visitors to steer a crane in Straubing. Liebherr takes a different approach by letting operators in Austria control a bulldozer on-site in Munich.

How do you envision bauma evolving in the coming years, especially with growing trends toward digitalisation, automation, and sustainability in the construction sector?

bauma will continue to be the industry's key innovation platform, evolving alongside technological advancements. Digitalisation, automation, and sustainability will play an even greater role in shaping the event. As companies push the boundaries of efficiency and environmental responsibility, bauma will remain at the forefront—offering insights, networking opportunities, and a space to present the solutions that will drive the future of construction and mining.





“The export market plays a pivotal role in our growth strategy.”

Ajay Malik, Head – International Business, Action Construction Equipment (ACE), speaks on the new products that the company is showcasing at bauma 2025.

What new products or innovations are you showcasing at Bauma Germany, and how do they cater to both the Indian and international markets?

At bauma Germany, we're excited to unveil a series of groundbreaking products that demonstrate ACE's commitment to innovation and sustainability. Our main highlight is the backhoe loaders—available in both equal wheel and different wheel configurations—which not only meets the stringent Bharat Stage V emission standards but also sets a new benchmark in fuel efficiency and eco-friendliness. These products reflect our dedication to sustainable solutions and are tailored for both Indian and international markets.

We are also showcasing advanced heavy-lifting equipment, such as the 3.5-tonne telehandler and the state-of-the-art NX360 ACE pick-and-carry crane. These machines are engineered to tackle complex projects, making them ideal for global infrastructure and agricultural needs. Each product is designed with a strong emphasis on reliability, precision, and adaptability, ensuring they meet the diverse requirements of customers across the globe.

How has the demand for your products evolved in the Indian market, and what trends do you see shaping the construction machinery sector in India?

Over the years, we've

witnessed a steady and robust increase in demand for our construction machinery in India. This growth has been driven by transformative government initiatives aimed at modernising the country's infrastructure. Additionally, the rapid pace of urbanisation and the surge in real estate development have created significant opportunities for construction equipment manufacturers like us.

Looking ahead, the industry is being shaped by several exciting trends—most notably, the integration of advanced technologies into construction machinery. AI- and IoT-enabled equipment are becoming increasingly common, enabling predictive maintenance, enhancing operational efficiency, and minimising downtime. By staying ahead of these developments and focusing on customer-centric innovation, we are not only meeting current market demands but also positioning ourselves for the future of the industry. Furthermore, with the growing emphasis on green infrastructure and sustainability, there is a clear shift towards eco-friendly and energy-efficient equipment—a direction that Action Construction Equipment fully supports through our innovative product designs.

What role does the export market play in your strategy, and how are you positioning your products to meet the needs of international markets, particularly Europe?

The export market plays a pivotal role in our growth strategy, with our products currently reaching over 44 countries—and counting. We see immense opportunity in global markets





These products reflect company's dedication to sustainable solutions and are tailored for both Indian and international markets.

and are actively working to deepen our presence across new regions. Europe remains a key focus given its stringent environmental and safety regulations, which align well with our philosophy of innovation and sustainability. Our equipment is designed to meet international benchmarks, including EURO 5 emission norms, ensuring full compliance with local standards. We continue to invest in R&D to create products tailored to European requirements while building robust service networks to provide seamless after-sales support. This combination of high-quality engineering and customer-centric service is what makes our products reliable and globally competitive.

What challenges have you faced in expanding into global markets, and how are you addressing issues like competition, regulations, and logistics?

Expanding into global markets comes with a host of challenges. Navigating different and often complex international regulations—and ensuring compliance with diverse standards across various regions—can be demanding. The global construction machinery sector is also highly competitive, with stiff competition from both local players and well-established international brands.

This requires us to consistently deliver on quality, efficiency, and cost-effectiveness. Logistics is another critical factor, as ensuring smooth and timely delivery across countries is essential for customer satisfaction. To address these challenges, we are investing heavily in our R&D capabilities to accelerate innovation and develop cutting-edge products that help establish ACE as a strong player in competitive global markets. We are also forming strategic partnerships with local distributors and service providers to ensure the availability of spare parts and robust after-sales support.

Looking ahead, what are your key growth plans for the next three to five years, especially in terms of international expansion and product innovation?

Our vision for the next three to five years is to significantly expand our global footprint by entering new markets and strengthening our presence in regions where our products are already trusted. Our expansion strategy is centered on tapping into high-potential markets across Africa, Southeast Asia, and South America, while deepening our reach in Europe and the Middle East. Product innovation will be a core pillar of our strategy, as we aim to introduce advanced, industry-relevant equipment

tailored to the evolving needs of global customers. We will continue to focus on building strong partnerships, fostering a culture of innovation, and delivering reliable, future-ready solutions that empower our customers and drive long-term success.

How are you incorporating sustainability and eco-friendly solutions into your product offerings?

Sustainability is at the core of our innovation strategy. Our products, such as the BS-V Backhoe Loader and Telehandler, are designed to reduce emissions and improve fuel efficiency. We are also exploring renewable energy solutions and incorporating eco-friendly materials into our manufacturing processes. As the industry moves towards greener practices, we are focused on leading this transformation.

Beyond our products, we've made significant strides in our manufacturing processes, incorporating renewable energy solutions and adopting environmentally friendly materials. We believe that sustainable practices are not only essential for the planet but also for the long-term success of the industry. As we move forward, we're committed to leading this shift toward greener, more responsible construction solutions.





“Propel continues to invest in innovation.”

V Senthilkumar, Managing Director, Propel Industries, speaks on the company's strategy in the export market.



What new products or innovations are you showcasing at Bauma Germany, and how do they cater to both the Indian and international markets?

At bauma Munich, we are excited to showcase our latest track-mounted machines, available in both electric and dual-power configurations. These innovations are designed to enhance fuel efficiency and reduce operational costs while maintaining high performance.

Products showcased in bauma Munich 2025 are jaw crusher (manufactured in Ireland) and track-mounted cone crusher. Our machines are CE-certified, ensuring compliance with European safety and quality standards. These certifications, combined with our focus on innovation and efficiency, make our products well-suited for European, the US, Australia, South Africa, and other India-like markets. Propel continues to push boundaries in sustainable and high-performance crushing solutions, catering to the evolving demands of the global industry.

How has the demand for your products evolved in the Indian market, and what trends do you see shaping the construction machinery sector in India?

Propel is India's leading manufacturer of crushing, screening, and washing solutions, reflecting the increasing demand for our products. Our company has been experiencing an impressive compound annual growth rate (CAGR) of 40 per

cent, demonstrating strong acceptance in the crushing and aggregates sector. The construction and infrastructure industries are witnessing a significant shift towards electrification, with an increasing adoption of electric-powered machinery to enhance efficiency and sustainability. This transition aligns with the growing demand for high-capacity crushers capable of meeting the production requirements of large-scale projects.

At the same time, sustainability initiatives are driving the industry towards eco-friendly solutions, minimising carbon footprints, and promoting environmentally responsible operations. As infrastructure projects continue to expand in India, Propel remains committed to delivering high-performance, cost-effective, and sustainable solutions that align with industry needs.

What role does the export market play in your strategy, and how are you positioning your products to meet the needs of international markets, particularly Europe?

Propel is committed to delivering bespoke solutions tailored to the unique needs of international customers, leveraging the expertise of experienced engineers and global partners. With aggressive investments in Europe and the US, the company is strengthening its presence as a leading crusher manufacturer in these key markets. Additionally, we focus on localised support and service to ensure quick access to technical assistance and spare parts, enhancing customer satisfaction and operational efficiency. Propel continues to invest in



The company has been experiencing an impressive compound annual growth rate (CAGR) of 40 per cent.

innovation, infrastructure, and strategic partnerships to expand its global footprint.

What challenges have you faced in expanding into global markets, and how are you addressing issues like competition, regulations, and logistics?

Expanding into global markets presents several challenges, including high-cost logistics, competition, and regulatory requirements. Propel has implemented strategic measures to overcome these barriers and strengthen its presence internationally.

Establishing brand recognition in mature markets (US and Europe), Propel is investing in marketing, partnerships, and aftersales support to enhance brand visibility. A major milestone in our European expansion is the acquisition of Omega Crushing Solutions, a well-established company in the European crushing industry. This acquisition allows us to offer European-standard products, stock parts and provide faster delivery, and direct service and support. Additionally, expanding our dealer network and service centres ensures stronger market penetration and a reliable presence in key regions.

Looking ahead, what are your key growth plans for the next three to five years, especially in terms of international expansion and product innovation?

Propel has ambitious growth plans for the coming years, aiming to become a \$750 million company by 2029 with a CAGR of 40 per cent. International markets will contribute 30 per cent of our total revenue within the next three to five years.

Key growth initiatives include future-ready product launches, introducing next-generation machinery and electric dumper trucks for the mining industry (to be launched within 18 months).

Developing sustainable and eco-friendly crushing and screening equipment to align with global sustainability goals. With a clear focus on technological advancements and global outreach, Propel is set to reshape the crushing and construction equipment industry.

How are you incorporating sustainability and eco-friendly solutions into your product offerings, and how important is this in shaping the future of the industry?

Sustainability and eco-friendly innovations are shaping the future of the industry, and Propel has taken the lead by introducing its electric dumper trucks in India well ahead of the competition. Our electric dumper trucks are a major step towards reducing carbon emissions and energy consumption in the transportation sector, particularly in industries like construction and mining.

Powered by advanced electric propulsion technology, our trucks offer a cleaner, more environmentally responsible alternative to conventional diesel-powered vehicles. Equipped with high-efficiency electric motors and energy recovery systems, they optimise energy utilisation while maintaining superior performance. The integration of smart monitoring systems in the EV tipper trucks allows real-time performance tracking and predictive maintenance, ensuring efficiency and extending the lifespan of the trucks. These advancements in electric vehicle technology are a major achievement in reducing the carbon footprint of infrastructure projects, offering customers a sustainable alternative while ensuring cost-effectiveness and improved operational performance.



XCMG's New Energy Series

XCMG Machinery is set to exhibit a lineup of over 40 construction equipment products and launch a new energy product series at bauma 2025. Themed Solid Innovation for Green Tomorrow, XCMG's grand product lineup includes top models from six major categories of hoisting, excavating, loading and road machineries, aerial work platforms, as well as non-excavating machinery. XCMG will be at booth FS.1005/4 at Messe München.

Aspired to become a leading enterprise in low carbon and emission reduction, XCMG is actively carrying out a sustainability roadmap and unswervingly takes the green development path of green innovation, green manufacturing, and green products. Centering on Powered by Green Innovation, XCMG's exhibition at bauma 2025 will debut a green, new energy product series while focusing on integrating the new energy development, financial system and

aftermarket development.

In light of the future challenges, XCMG is promoting the digital transformation from traditional, single-point and localised informatisation to global, full-value-chain and full-business-domain digitalisation, improving overseas lean operation capability, and comprehensively enhancing localised service capability, especially the aftermarket services.

Since 1992, XCMG has continuously expanded the scale of its exhibition at bauma, contributing the solutions, intelligent innovations and power of XCMG to the global

construction machinery industry. Now recognised in over 190 countries and regions, XCMG is making strides in the international market and supporting global infrastructure construction: it's joining hands with Rio Tinto in developing the Simandou iron ore project, the world's largest untapped reserve of high-grade

iron ore; the group has set up a West Asia and North Africa value-added service centre in UAE; and the export of 100 units of mining equipment to Australia has been the largest order to date.

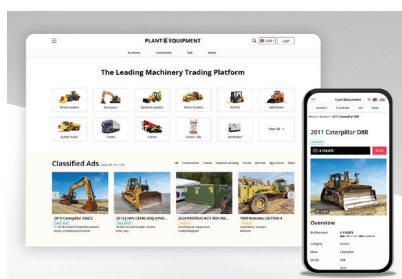
In Europe, XCMG will continue to improve the service system and network, strengthen the service team, carry out professional trainings to break through the service bottlenecks, and at the same time, complete the construction of the German spare parts centre, improve the efficiency of spare parts logistics and distribution, as well as management and market responsiveness.



Plant & Equipment's Cutting-Edge Platform

Plant & Equipment, the leading marketplace for heavy machinery and trucks, is set to participate in bauma Munich 2025. As a key player in the heavy construction machinery sector, Plant & Equipment will leverage this global event to present its cutting-edge online marketplace, PlantAndEquipment.com. The platform connects buyers and sellers worldwide, providing essential tools for equipment transactions, online auctions, and industry insights.

Visitors to the Plant & Equipment booth will have the opportunity to explore its diverse offerings, including



online auctions, classified listings, and real-time equipment news. With a focus on earthmoving and mining machinery, Plant & Equipment's platforms provide solutions for companies seeking advanced machinery and industry intelligence. Attendees will also gain

insights into the continued growth of Plant & Equipment's auction marketplace, which is revolutionising the way heavy machinery is bought and sold online.

Based in Dubai, Plant & Equipment remains a globally recognised marketplace and resource for heavy machinery and trucks, serving professionals in the Middle East, Africa, and beyond. Through its dynamic marketplace and auctions, Plant & Equipment continues to provide seamless, innovative solutions to meet the evolving needs of the construction and heavy equipment industries.

Zoomlion's Green Intelligent Equipment

Zoomlion Heavy Industry Science & Technology, a global leader in construction machinery, is bringing 67 premium construction machinery equipment to the bauma 2025 trade fair. Zoomlion will be at booth FS.905 at the Messe München to showcase its latest breakthroughs in green, intelligent, localised products and technologies as well as global development.

Themed "Greener Development, Brighter Future," Zoomlion's exhibition will cover an area of 3,840 square meters and showcase a comprehensive product lineup of concrete machinery, mobile cranes, tower cranes, earthmoving machinery, aerial work platforms and industrial vehicles.

Zoomlion's aerial work exhibition will showcase a range of advanced equipment, highlighting the ZT72J-V, the tallest straight-boom aerial work platform in Europe, which features intelligent obstacle avoidance and multifunctional accessories.

The earthmoving machinery section will showcase the latest ZE20G and ZE27GU excavators designed to operate



in narrow spaces. The ZE20G has the largest market share in Europe while the ZE27GU features an all-new driver's cab. Visitors will have the opportunity to interact with the micro excavators through fun games like stacking wine glasses and bowling.

The tower crane exhibition will highlight Zoomlion's intelligent and unmanned construction capabilities, including demonstration of 5G remote operation. Zoomlion is also introducing the large tonnage R-series designed for the European market with CE Certification. The concrete machinery section will feature the world's first

carbon fibre tube and intelligent management system as well as an array of smart components, demonstrating the intelligent construction solutions with a sand table model while also engaging the visitors to experience active obstacle avoidance and alert systems through smart bracelets, signal box, iPad and more.

In addition, m-tec and CIFA of Zoomlion will exhibit locally manufactured products with innovations that meet the needs of customers in Europe. M-tec will also offer interactive VR activities to provide an intelligent and digital experience.

Develon to Showcase New Innovations

The Develon stand will reflect the key aspects of this year's Bauma and those of the global construction industry, from digitalisation and sustainability; automation and alternative drive concepts to networked construction, reduced carbon footprint and the circular economy. Develon will display its vision for autonomous machinery which has been an ongoing development stream at the company for years, starting with the Concept-X technology first seen globally in 2019.

This progressed to Develon's Concept-X2, the remote control/autonomous cabless construction



equipment solution first seen at Conexpo in 2023 and promoted globally by the company for the last two years.

At Bauma, visitors will see 'Real X', the next level in autonomous working

from the company. Real X allows the latest smart Develon crawler excavators to carry out a full suite of autonomous tasks including trenching, bulk earthwork and truck-loading.

Real X utilises Develon's expertise in AI-powered excavation and construction equipment technology to accelerate the development of safe, productive, sustainable and predictive autonomous excavation solutions. Real X technology is also flexible and allows the same excavator to be operated in autonomous mode, remote control mode or in normal joystick operation mode.

Caterpillar's Advancements in Tech

Caterpillar stand will be displayed on a redesigned stand is thoughtfully crafted to help you make the most of your visit, offering a dynamic space to explore the full spectrum of Cat equipment, attachments, and innovative solutions. With the OEM celebrating its 100th anniversary this year, the theme of the show will be, "The Next 100 Years," with Caterpillar saying it will be highlighting its commitment to innovation and sustainability.

Covering over 9,000 m², Caterpillar's exhibit will feature 48 machines, including 17 new introductions or upgrades. These include enhancements to the battery electric line-up, expansions to the Next Generation line-up, and additions to the Demolition, Waste Handling, and Recycling portfolios.

"We are excited to be returning to Bauma this April. What we will show will be a fitting tribute to our heritage



while demonstrating our commitment to building a safer, smarter and more sustainable world with our customers and dealers for the next 100 years," said Tony Fassino, Group President, Construction Industries, Caterpillar.

"Alternative power sources, reduced carbon options, and integrated technologies are the future, and Caterpillar is ready to deliver this in collaboration with our global dealer network."

On display will be three recently introduced next generation compact

track loaders, offering upgrades in engine power and torque, lift and tilt breakout forces, stability, operator comfort and technology.

The new D8 dozer will be featured, based on the Next Generation platform. It includes a new high-end operator station that is common with the D5-D7 platforms and comes with a 15-degree angled seat for enhanced comfort. Additionally, it introduces a full suite of Assist features and is Cat Grade 3D ready ex-factory, with the option to upgrade to Cat Command Remote Control.

Making its first appearance at Bauma is the 140 AWD Next Generation Motor Grader. Still in prototype stage, this 20-tonne operating weight prototype machine consolidates two existing platforms into a common next generation platform for motor graders, providing customers more choices of features, technologies and configurations.

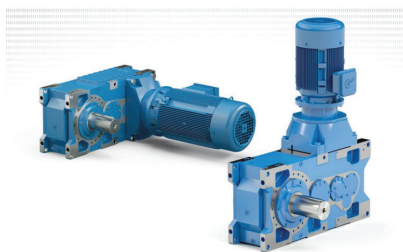
NORD DRIVESYSTEMS' Advanced Drive Solutions

NORD DRIVESYSTEMS will be exhibiting its innovative drive systems for industrial applications. Features include the NORDAC PRO SK 500P frequency inverter, which can adapt to a wide range of applications, and the company's MAXXDRIVE inter industrial gear units.

High-performance gear units

MAXXDRIVE XJ and XD: The industrial gear units MAXXDRIVE XJ and XD are long-life with optimum crane application performance and when it has to do with the lifting gear, the XD performs rather well due to its extended gear stage design.

MAXXDRIVE XT: Because of their high thermal limit powers and low ratios, the MAXXDRIVE XT



industrial gear units are the best suited for bulk material plants. They are meant for conveyor belt systems and ensure high operational reliability with low maintenance time. Large roller bearings and optimised center distances help improve load capacity and life cycle of gear units, therefore further enhancing availability of the system.

The NORDAC PRO SK 500P control cabinet inverter is book-sized, highly adaptable, and easy to integrate. Its book-size format requires little space in the control cabinet. NORD's modular products offer industrial drive solutions for almost every branch of industry, including geared motors, industrial gear units, and frequency inverters.

With offices in over 80 countries worldwide, NORD delivers these solutions from a single source, ensuring smooth cooperation and short delivery times. Customers worldwide benefit from competent advice, rapid service, and the best drive solution for their individual application.

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- Fastest road builder award
- Award for Highest standards of Excellence in Road Engineering & Construction

NOMINATIONS ARE OPEN

For Nomination Inquiries
Siraj : +91 97695 77206 |
Siraj.K@ASAPPinfoGlobal.com



Volvo CE's First-Ever Zero-Emission Lineup

Volvo Construction Equipment with the unveiling of its first-ever zero-emission only lineup. This groundbreaking showcase will feature an exclusive all-electric range and marks a significant milestone in Volvo CE's commitment to sustainable innovation.

Experience Volvo CE's exclusive all-electric range at Bauma 2025.

The platform will also include a worldwide first launch of a new Volvo zero-emission machine, designed for key industrial segments in the construction industry.

Volvo CE also provides conventional diesel options of all zero-emission models on show that



deliver industry-leading fuel efficiency improvements of up to 15 per cent, offering customers the choice of technology that meets their needs wherever they are on their transformation journey

An interactive Solutions Bar will provide the ideal environment for customers to focus on tailored, data-driven advice and business solutions to unlock new levels of

productivity, efficiency, and sustainability. Visitors will have the unique opportunity to experience Volvo CE's all-electric lineup, which exemplifies the company's dedication to reducing environmental impact while maintaining superior customer performance. This exclusive range, including recently launched models of excavators and loaders is designed to meet the diverse needs of the construction industry, offering cutting-edge technology and efficiency. The show will also see the worldwide, never-before-seen launch of a brand-new Volvo zero-emission machine designed for use in key industrial segments in the construction industry.

Volvo Penta Drives Next Steps in Electrification

Helmed by its brand tagline, 'Made to Move You,' Volvo Penta's approach at bauma 2025 is about keeping construction and mining operations moving — productively and competitively through the energy transition. With a customer-focused approach, Volvo Penta delivers tailored expertise while leveraging the Volvo Group's strength to scale when needed.

In supporting electrification, Volvo Penta will showcase their scalable and modular BESS subsystem that enables OEMs and system integrators to seamlessly integrate and deploy electric power to meet the ever-exceeding energy needs in construction and mining. The same high-performance, energy-dense battery technology used in Volvo Penta's electromobility drivelines now powers its BESS subsystem — designed for reliable performance, durability, and resistance to dust and corrosion in tough



environments. Volvo Penta's BESS subsystem enables system integrators and BESS manufacturers to create tailored solutions for everything from mobile, temporary power applications to permanent infrastructure at electric sites. This provides a flexible, robust, and scalable foundation that customers can seamlessly adapt to their business needs and meet growing energy demands while maintaining productivity and uptime.

"Our modular and scalable battery-electric platform is designed to support the electrification ecosystem — combining high-performance

drivelines with the crucial energy storage subsystems for efficient charging and operation in construction and mining. We want to meaningfully collaborate with our customers on value-added customisation that will enable them to stay productive, efficient, and future-ready," says Hannes Norrgren, President of Volvo Penta Industrial.

As the energy transition evolves, high-efficiency combustion engines remain crucial for off-highway and power generation applications. Volvo Penta is committed to the industry's path to net zero, supporting renewable fuels like HVO as well as advancing hydrogen dual-fuel technology (such as the one on its Stage V D8 platform). These innovations align with stringent emissions regulations while ensuring reliability and performance, aimed at contributing to a more sustainable future for off-highway and stationary power applications.

Wirtgen to Present 45 Innovations

The focus of the joint presence of the Wirtgen Group and John Deere at bauma is to help customers become more efficient and profitable through smarter and safer construction equipment, innovative technology solutions and application processes. The highlights of the 13,000-m² booth at the show are eight production systems for a variety of applications in the areas of road construction, earthmoving and materials processing. Professionals visiting the booth can look forward to experiencing around 100 machines at first hand and, for the first time, nine live shows. This year, the Wirtgen Group has been nominated for the 'bauma Innovation Award' in two categories.

The company group will showcase a range of concrete solutions it has developed to support and assist the industry in overcoming the challenges of the skilled labour shortage, stringent quality requirements, project documentation and efficiency.

Smart, safe and sustainable



solutions are in greater demand than ever before. In view of this, the company is presenting state-of-the-art machines, technologies, and digital solutions for its customers' Production Systems in the three industry segments. The focus here is on end-to-end solutions for construction projects – from planning to documentation and statistical analysis.

The Technology Zone will feature the John Deere Operations Center™ for construction, the centralised platform for digital solutions for the management of jobsites. In addition, the visitors get the first chance to see the Wirtgen Group Performance Tracker (WPT) Paving, WPT Compacting, WPT Recycling and WPT Crushing. Thanks to relevant performance data, these new solutions

– and the already known WPT Milling – offer a continuous overview of progress in all processes and can also document the work carried out by each individual machine, such as a milled, paved and compacted area and the materials processed. Performance data helps customers make fact-driven decisions that enable them to optimise machine utilisation rates and productivity and derive reference values for planning future projects.

Production systems include not only the right procedures and digital systems for an application but also the ideal combination of machines. On a walk along the Technology Zone, visitors will see exhibits including machine-trains for paving with reduced-temperature asphalt, soil stabilisation and materials processing.

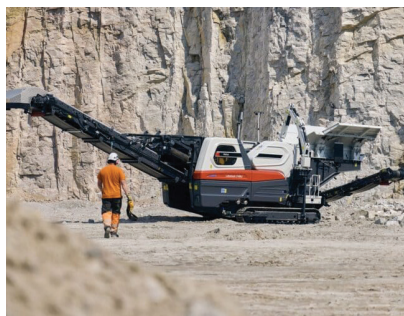
The main focus will be the 'Production System for a Construction Site with Zero Local Emissions,' which has been nominated for the 2025 bauma Innovation Award in the category 'Climate Protection'.

Metso's Latest Aggregates Technology

Metso will exhibit its latest innovations and technologies for the aggregates industry. Renaud Lapointe, President, Market Area Europe and Central Asia at Metso, said: "After a hiatus in 2022, we are pleased to return to bauma 2025.

"This event provides an opportunity to present our latest developments and engage with customers and partners."

Metso's participation coincides with the 40th anniversary of its Lokotrack® mobile crushers, which will be a key focus at the event. The company will also introduce the latest Nordberg HPe crushers, designed to



improve performance in demanding conditions, as well as updates to its Lokotrack® and Nordtrack™ mobile crushing and screening equipment. This includes the new EC range models and a "Build Your Own" tool that allows users to customise Lokotrack

EC jaw or cone crushers.

Another feature will be the Metso HRC™ 8 Crusher, developed to convert demolition waste into materials such as manufactured sand. The company will also present its latest screening technology, designed for precise material separation and easier maintenance.

Metso's aftermarket support offering will be on display, including new wear parts aimed at extending service life. The company will also highlight its digital solutions, which use intelligent instruments and software to improve efficiency and reduce costs.

Hyundai to Unveil Second Skid Steer

Hyundai Construction Equipment is expanding its skid steer loader lineup with the introduction of its second model the HS80V set to debut at bauma 2025 in April. This follows the company's re-entry into the skid steer market at Conexpo 2023. The HS80V powered by a Hyundai diesel engine delivers 66.4 horsepower and joins the existing 70-horsepower HS120V in the lineup. Hyundai also offers a 70-horsepower compact track loader the HT100V. Weighing 3.2 metric tonne the HS80V has a rated operating capacity of 1951 pounds at 50 per cent tipping load and reaches a top speed of 7.3 mph with its single-speed travel motors. Details on its availability in North America remain unconfirmed.

Designed for efficiency the loader features a vertical-lift path that enables the boom to raise the bucket to full height without material spillage. An



Auto Self-Leveling system ensures the bucket or forks remain level during lifting without operator adjustments. The machine also includes a standard flat-faced hydraulic quick coupler for attachment changes from the cab with

an optional 14-pin electrical connector.

Operator comfort and visibility are key aspects of the HS80V's design. The spacious cab is equipped with heating and air conditioning while a full-width front window provides a clear view of attachments. A rearview camera activates automatically when reversing and working lights remain on for 30 seconds after shutdown to assist with safe exits in low-light conditions.

Control is managed through two multi-function joysticks each with various switches for auxiliary hydraulics and other functions. The right-hand lever operates the boom and bucket while the left-hand lever handles driving functions. Engine speed can be adjusted using either a rotary dial or a foot pedal with Hyundai recommending the dial for powered attachments to maintain consistent speed.

Sennebogen to Launch Telecrawler Range-Topper

Sennebogen is setting a new milestone in its crane technology at bauma 2025: With the introduction of the new 6203 E telescopic crawler crane, which has a maximum load capacity of 200 metric tons and a jib length of up to 78 m, the company is expanding its range with what is now by far the largest and most powerful model in the series. A completely revised machine control system rounds off the new crane.

Now firmly established on the international market, more and more contractors and crane hire companies are recognising the advantages and versatility of telescopic crawler cranes and are increasingly finding ways to use them. 'SENNEBOGEN has over 33 years of experience with mobile and



telescopic crawler cranes. One market trend that we are now observing is the growing demand for large telescopic crawler cranes. To meet this demand, we are now expanding our range significantly upwards with the new 200-ton crane,' explains Managing Director Erich Sennebogen.

The Sennebogen 6203 E is now the tenth telescopic crawler crane model in the manufacturer's range and

demonstrates its strengths above all when high capacities are required with varying radii and difficult construction site conditions. The crane is powered by an efficient 194 kW Stage V diesel engine which, like all SENNEBOGEN cranes with Stage V engines, can be easily operated with HVO if desired. The main and auxiliary winches are driven by high-pressure-regulated variable displacement hydraulic motors, which give them an impressive pulling force of 135 kN each and rope speeds of up to 115 m/min. The machine is predestined for heavy precast concrete assembly, bridge and infrastructure construction and as an agile service and auxiliary crane for the construction of wind turbines.



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Secret to Seamless Mining Operations

Smarter printing is revolutionising the way mining companies manage their supply chains and logistics.



Mining operations are among the most complex and logistically demanding industries in the world. With vast sites spread across remote locations, tracking and managing heavy machinery, tools, and spare parts is an ongoing challenge. Delays due to misplaced equipment or inefficient tracking systems can lead to serious financial losses and operational disruptions. Traditional methods such as manual logs, handwritten records, and outdated digital tracking systems often fall short in providing real-time, accurate information. To combat these inefficiencies, mining companies are now leveraging smarter printing solutions to streamline equipment tracking and improve logistics.

One of the major challenges in mining operations is the lack of real-time visibility over equipment and spare parts. The size of mining sites, coupled with constant movement of machinery and components, makes it difficult to track assets efficiently. Equipment misplacement leads to unplanned downtime, increased maintenance costs, and unnecessary repurchasing of lost tools.

To address this issue, companies are implementing advanced printing solutions that integrate seamlessly with equipment tracking systems. These solutions allow mining operators to print durable, high-quality labels and tags on-site, ensuring every asset is properly identified and monitored. By using industrial-grade printers capable of

producing heat-, water-, and dust-resistant labels, companies can enhance tracking efficiency while reducing operational errors.

Smarter printing is revolutionising the way mining companies manage their supply chains and logistics. Unlike traditional label printing, modern industrial printing solutions offer high durability, automated tracking integration, and enhanced visibility. These solutions help companies create long-lasting, scannable labels that withstand the extreme environmental conditions of mining sites, from high temperatures to exposure to chemicals and abrasives.

A well-implemented smarter printing system plays a crucial role in improving logistics by providing real-time tracking of inventory and

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spare parts. Every label is encoded with relevant data that can be scanned instantly, allowing warehouse managers to track the movement of items efficiently. It eliminates manual errors, as handwritten labels and records are prone to mistakes, whereas digitally printed, tamper-proof labels ensure accurate tracking and minimise misplacement of essential tools and components. Moreover, it helps reduce equipment downtime by better tracking ensures that equipment needed for repairs or maintenance can be located quickly, avoiding unnecessary delays. Additionally, mining companies must comply with strict safety and operational regulations. Clear, standardised labeling helps in ensuring that safety procedures and maintenance records are up to date, thereby enhancing regulatory compliance.

Proper labeling and tracking of heavy equipment, tools, and spare parts contribute significantly to seamless mining operations. The integration of smarter printing with existing asset management systems ensures that every piece of machinery is accounted for, from procurement to deployment.

By using high-quality thermal and industrial printers, mining companies can print specialised tags with barcodes and QR codes, allowing for easy scanning and automated data entry. This reduces the need for manual input and eliminates tracking errors caused by miswritten records. Additionally, printing solutions with customisable templates allow mining operators to generate labels that meet industry standards and include key information such as maintenance schedules, serial numbers, and operational history.

The ability to print on-demand labels at remote mining sites is another significant advantage.

Instead of relying on centralised printing facilities, which can cause delays, companies can deploy rugged industrial printers at different locations to ensure that equipment and parts are labeled immediately after procurement, repair, or reassignment.

Mining logistics depend heavily on the ability to track and move equipment and spare parts efficiently. With smarter printing, mining operators can create a more organised logistics system by ensuring that all materials are labeled accurately and tracked in real time.

For instance, warehouse management systems that integrate with smart printing technology enable automated stock tracking, reducing the risk of over-ordering or understocking essential components. When an item is used or moved, its barcode is scanned, updating the system instantly and providing a clear record of inventory levels.

Moreover, the integration of cloud-based inventory systems with printed labels allows multiple teams across different locations to access asset information simultaneously. Whether it's an operations team on-site or a procurement team in a corporate office, everyone stays informed about available stock, pending orders, and asset locations, reducing unnecessary downtime and improving workflow coordination.

Several mining companies have successfully adopted smarter printing solutions to enhance their operations. For instance, companies using industrial printing solutions for on-site labeling have reported improvements in spare parts tracking and reduced instances of misplaced inventory. By ensuring that all parts were correctly labeled and monitored, they minimised unnecessary equipment purchases and improved efficiency.

Similarly, mining operations that

previously struggled with tracking expensive drilling tools have implemented high-durability printed labels and cloud-based inventory tracking. This has resulted in significant reductions in equipment downtime, improved productivity, and lower costs associated with lost or misplaced tools.

With the adoption of smarter printing solutions, mining companies can achieve a seamless flow of operations, ensuring that equipment is properly tracked, logistics are optimised, and productivity is maximised. By investing in robust printing technology today, mining firms can future-proof their operations and set new benchmarks for efficiency and cost-effectiveness in the industry.

The role of smarter printing in mining operations goes beyond simple labeling—it is a crucial component of modern equipment tracking and logistics management. By implementing industrial printing solutions, mining companies can eliminate errors, streamline inventory management, and significantly reduce downtime caused by misplaced equipment.

With the growing need for efficiency and regulatory compliance in the industry, embracing advanced printing technology will not only improve tracking and logistics but also lead to better financial performance and operational sustainability. As mining operations continue to evolve, smarter printing solutions will be a key driver of success in ensuring seamless, efficient, and cost-effective equipment management and logistics processes.



About the author:
The article is authored by **Alok Nigam, Managing Director at Brother International India.**



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Smooth Operations

In the fast-paced construction industry, lubricant advancements are key to enhancing machinery performance and longevity.



Smooth Operations

In the fast-paced construction industry, lubricant advancements are key to enhancing machinery performance and longevity.

In the high-stakes world of construction, where colossal machines operate under intense conditions, the silent hero that ensures their seamless performance is often overlooked: lubricants. From reducing friction and wear to enhancing fuel efficiency and equipment lifespan, lubricants form the backbone of the construction equipment ecosystem.

The construction industry in India is undergoing a transformative surge, with exponential growth in infrastructure projects ranging from highways and metro rail networks to real estate developments and mining operations. In such an environment, the role of industrial lubricants has never been more crucial.

Construction equipment such as excavators, bulldozers, loaders, and mixers work in environments laden with dirt, dust, moisture, and extreme temperatures. These factors contribute to rapid wear and tear. Lubricants not only reduce friction but also offer critical protection against corrosion, thermal degradation, and contamination.

“The Indian lubricant market is demonstrating steady growth driven by escalating demand for industrial equipment. The recent years have witnessed a surge in construction, manufacturing, and mining activities, all of which intensify the requirement for high-performance industrial lubricants,” said **Praveen Nagpal, Chief Technology**



Praveen Nagpal
Chief Technology
Officer –
Lubricants &
Services, Shell
Lubricants India

Officer – Lubricants & Services, Shell Lubricants India. “These lubricants are essential to ensure the efficient and productive functioning of heavy machinery operating in these sectors, often under arduous conditions such as mining.”
Shell has co-developed

the Komatsu Genuine Oil 15W-40 with Komatsu, meeting stringent OEM standards and enhancing high-temperature performance. Shell’s product range also includes the Shell Tellus S4 VE hydraulic oil and Shell Gadus S3 V460D 2 high-temperature grease, both derived from cutting-edge gas-to-liquid technology.



Demand drivers

India's lubricant market stands at an estimated 130 million litres annually, with more than 54 percent coming from the industrial sector. According to **Ravi Chawla, Managing Director, Gulf Oil India**, "The Indian finished lubricants market is the third-largest and one of the fastest-growing lubricants markets in the world. With the growing trade of vehicles and their spare parts, it is anticipated to grow at a CAGR of 4.77 percent by 2027."



Ravi Chawla
Managing
Director, Gulf Oil
India

Gulf Oil recently partnered with Schwing Stetter to supply premium lubricants like hydraulic oil, axle oil, and synthetic gear oil tailored for concrete pumps and batching plants. "We offer customised products and services at more than 5,000 sites and to more than 1,000 customers who are building roads, highways, metros, and houses," added Chawla.

Satya Ranjan Mohapatra, Deputy General Manager, Tide Water Oil, said, "The industrial lubricant market is growing at a modest rate of 3.5 to 4 percent per annum. In the industrial segment, the construction and mining industry contributes around 12 percent to the total lubricants market."



Satya Ranjan Mohapatra
Deputy General
Manager, Tide
Water Oil

Customisation and sustainability

Jayanta Ray, GM – Industrial and OEM at GS Caltex India, emphasised their eco-conscious efforts: "GS Caltex is promoting sustainability by offering



Jayanta Ray
GM – Industrial
and OEM,
GS Caltex India

COMMON CHALLENGES AND SOLUTIONS

- Despite the best efforts, challenges in lubricating construction equipment can arise. Here are some common issues and how to address them:
- Dust, dirt, and water can contaminate lubricants, reducing their effectiveness. Regularly check and replace filters, and ensure that seals and covers are intact to minimise contamination risks.
- Using the wrong lubricant can lead to poor performance and damage. Always consult equipment manuals and manufacturer guidelines to select the correct lubricant for each application.
- Over time, lubricants can break down due to exposure to heat, pressure, and contaminants. Regularly monitor and replace lubricants based on manufacturer recommendations and operating conditions.
- Insufficient lubrication can cause excessive wear and component failure. Implement a routine maintenance schedule and ensure that lubrication points are properly serviced.

lubricants with extended drain periods and using recycled plastics in packaging. Our base oils are low in volatility and support high thermal and oxidation stability."

Their product line, Kixx Lubo, offers environment-friendly Group II/III base oils developed through advanced hydrocracking technology. The company has also introduced Kixx HDX Euro (API CK4) and FA4-compliant lubricants for BSVI engines, reflecting compliance with new emission norms.

"To cater to stricter norms, we have expanded our synthetic grease and hydraulic oil portfolio for construction and mining.

These innovations are designed to meet extreme conditions and are backed by proven testimonials," added Ray.

Emissions, additives, and the future

Vinni Chemicals, a key player in fluid dynamics, has recently developed non-



Harsh Vardhan Jain, Chief
Executive Officer,
Vinni Chemicals

conductive greases for the EV segment and additives that reduce engine corrosion caused by ethanol and methanol blends. "These additives can extend engine life by up to 1.5 years and improve fuel economy by five to seven per cent,"

Harsh Vardhan Jain, Chief Executive Officer, Vinni Chemicals, shared. Their collaboration with JCB and Tata Motors further underscores their credibility.



Vaibhav Maloo
Managing
Director,
ENSO Group

Vaibhav Maloo, Managing Director, ENSO Group, added, "Our lubricants enhance uptime through high viscosity index, anti-wear additives, and thermal stability. Customers prioritise anti-wear properties, thermal stability,

and multi-purpose use along with sustainability and regulatory compliance." ENSO is developing smart packaging and AI-driven monitoring tools, while focusing on compliance with global standards such as API and ACEA.

In one case, a prominent m-sand manufacturer switched to Mobilgrease XHP™ 462 Moly and



One of the key benefits of using OEM-approved lubricants is the extended lifespan they can provide to machinery.

saw grease consumption drop by 67 per cent, translating to savings of Rs 9,80,000. This wasn't just due to the lubricant but also an improved lubrication strategy, including better monitoring and predictive maintenance.

Mobilgrease XHP™ 460 series, designed for temperatures up to 140°C, is ideal for the mining sector where equipment faces severe pressure and environmental conditions.

Says **Vasanth Thangavelu**, General Manager – Marketing Deployment (Commercial), ExxonMobil Lubricants, “In our product line-up, we have a range of high-

performance lubricants designed specifically for the construction and mining sector. These products are tailored to withstand severe conditions such as high temperatures, heavy loads, and harsh environments. One notable product is our Mobil DTE 10 Excel™ Series, hydraulic oil with high



Vasanth Thangavelu
General Manager
– Marketing
Deployment
(Commercial),
ExxonMobil
Lubricants

viscosity that extends oil change intervals and improves energy efficiency. Another is the Mobil Delvac 1™ ESP 5W-40, a synthetic lubricant offering fuel efficiency and extended engine life. We also have the XHP series, like the Mobilgrease XHP™ 220 Series, focusing on structural stability in harsh

operating environments.”

OEM-approved lubricants are specifically designed to meet the unique requirements of the machinery they service. For instance, Caterpillar's lubricants are formulated to match the exact specifications of their engines and components, ensuring that each part operates under ideal conditions. Similarly, Komatsu and Volvo CE develop their own lubricants to cater to the operational needs and environmental conditions of their machinery. This tailored approach helps maximise performance and efficiency, reducing the risk of breakdowns and costly repairs. One of the key benefits of using OEM-approved lubricants is the extended lifespan they can provide to

machinery. These lubricants are engineered to offer superior protection against wear, corrosion, and high temperatures, which helps in maintaining the integrity of critical engine and transmission components.

Caterpillar Oils are designed to provide you with increased performance and extended engine life. They are specially formulated to reduce wear on bearings, piston rings, bushings, and other valvetrain components, which can help your engine run longer. Cat Oils improve engine life, performance, and efficiency. The detergents in the formulation are effective at reducing buildup in your engine.

Case IH stays ahead of the curve with newly improved Hy-Tran® Premium Hydraulic Transmission Oil designed to keep tractor transmissions, axles and hydraulic systems free of deposits while inhibiting wear, corrosion, sludge and foaming. Similarly, CNH top-grade Premium Transaxle Oil enables smooth, noise-free operation in equipment, especially those fitted with oil-immersed (wet) brakes like wheel loaders and tractor loader backhoes.

Tata Hitachi offers a wide range of lubricants includes hydraulic oils, engine oils, gear oils, grease and coolants. The company's engine oils include high quality base oil and advanced additives combined in a balanced manner for high output and low emission diesel engine. Its heavy duty grease is multi-functional extreme pressure grease suitable for temperatures up to 130°C. It is specially recommended for use in construction equipment and heavy duty vehicles.

Fluid management

Yogesh Kumar, Director – Technical Service, Minimac

The chosen lubricant must be compatible with your machinery's existing systems. Incompatible lubricants can cause efficiency issues, increased wear, and costly breakdowns.



Yogesh Kumar
Director –
Technical Service,
Minimac Systems

solution.” Minimac has developed indigenous technologies for contamination management, purification, and oil flushing, tailored for diverse industries from coal mining to cement.

Selecting the right lubricant

Selecting the appropriate lubricant—whether oil or grease—is crucial for maintaining equipment performance and prolonging its life. Each type of lubricant has its own set of advantages and drawbacks, making them better suited for different applications and conditions. Effective lubrication not only minimises friction and prevents wear but also ensures smooth and efficient machinery operation.

Viscosity is a key characteristic of lubricants that impacts their ability to protect heavy machinery. It essentially governs the lubricant's flow and thickness, akin to its lifeblood. When choosing a lubricant, consider both the type of machinery and the specific operating conditions it encounters. Different

Systems, shared, “Our business recovers the oil and restores it to fresh oil quality. Reclaimed oil reduces pollution and offers a cost-effective

machines require different viscosities to function optimally. For instance, high-speed equipment typically performs better with low-viscosity lubricants that reduce friction and improve efficiency, while heavy-duty machinery may need higher viscosity lubricants to support greater loads. Environmental factors, especially in industries like oil and gas, also play a crucial role in determining the right viscosity. Additionally, compatibility is an essential factor in lubrication. The chosen lubricant must be compatible with your machinery's existing systems. Incompatible lubricants can cause efficiency issues, increased wear, and costly breakdowns. By opting for our pressure-activated lubricants, you minimise the risk of compatibility problems.

Conclusion

Lubricants play a vital role in the effective operation and longevity of construction equipment. By reducing friction, dissipating heat, preventing corrosion, and providing cleaning and sealing functions, lubricants help ensure that machinery performs optimally and remain reliable in challenging conditions. Understanding the types of lubricants available, adhering to best practices, and addressing common challenges can significantly enhance equipment performance and reduce maintenance costs.

Investing time and resources in proper lubrication practices not only extends the life of your equipment but also contributes to safer and more efficient construction operations. As construction projects continue to grow in complexity and scale, maintaining a proactive approach to lubrication will remain a key factor in achieving success and maximising the value of your investment in machinery.





“The product, components, and tech meet global standards.”

Elgi Equipments announced the introduction of its pioneering compressed air stabilisation technology. The company's **Managing Director Dr Jairam Varadaraj** shares insights on the products significance along with the company's future plans.



When is the commercial production of ELGi Stabilisor scheduled to begin, and how long did the research and development process take?

We are ready to introduce the system. We will roll out this technology globally over six to seven months, progressing gradually to train our sales and service engineers worldwide to present it effectively to customers. Manufacturing and the supply chain are fully prepared. R&D took one and a half years for proof of concept and testing, backed by seven to nine years of experiments and failures.

What is the unique selling point of this Stabilisor, and how does it stand out from competitors?

I can't speak for the competitors on how they think, but I can tell you how we do. You need to determine whether they think differently. Let me give you an example of an unstated want in simple terms and how we discovered it.

Take the well-known example of shampoo in a sachet. Earlier, shampoo was sold only in bottles by big FMCG brands, costing Rs 200–300. People at the bottom of the pyramid aspired to use shampoo but couldn't afford a full bottle. A shampoo manufacturer in Chennai innovated by introducing shampoo in a Re 1 sachet. This made shampoo accessible to a larger audience and turned out to be more profitable than selling Rs 200 bottles.

Now, what was the discovery. The customer believed they

could never afford shampoo. But within that belief lay an opportunity for innovation. Similarly, in our case, customers accepted that they had to pay 3 per cent more for an inverter drive or suffer inefficiency and instability. We saw an opportunity in this—could we achieve stability and efficiency without the high cost of an inverter? Once we defined this goal, we started looking for solutions that met these seemingly disconnected requirements.

Are my competitors thinking this way? I don't know. They focus on efficiency through electronics and software, which is fine. But this is fundamental science, not just electronics or software. Are they approaching it at the level of science? Maybe, but there's no clear evidence yet, so I can't say for sure.

To what extent have you successfully convinced customers about this technology?

The jury is out, and now we wait. We approached two customers. The first refused, saying they already have an IoT device providing real-time data and didn't want to share it with us, fearing higher charges. However, he allowed us four days to test our solution. Now, he's refusing to return the machine—that's how powerful our demonstration was.

Customers understand energy efficiency, and compressed air is highly inefficient. Any efficiency story resonates quickly. The real challenge is overcoming the bias toward foreign technology. We've introduced a world-first innovation from India, but convincing customers takes effort. That's why we install it

on their machines for them to see the results firsthand. The best part? If our machine doesn't work, their system continues running as usual—unlike a VFD, which, if it fails, shuts the machine down.

Do you provide data-backed technical support for lifecycle cost analysis benefits on this Stabilisor?

We haven't tested this technology in portable, engine-driven applications yet; our main focus is industrial use. However, we plan to expand it to portable applications. The savings are significant—not just in energy costs but also in oil life, condensation prevention, and filter longevity, as they remain under constant pressure. We're documenting these benefits while primarily driving energy efficiency. The product, its components, and technology comply with global standards, including Europe's Lot 31 for variable operating cycles, where we match 70 per cent efficiency.

Is ELGi the first company to introduce this technology in the industrial compressor segment? Do you plan to eventually replace the existing system with Stabilisor?

We are the first to develop this—it's our patent. No other patent is even close. When we conducted a patent search after finalising our idea, the only similar patent was our own previous one. We've worked on recovery and reuse before in a different context, and this is an extension of that. No one else has this.

As for the next steps, absolutely Stabilisor is our future. While we haven't finalised our strategy, we have six stakeholders, including society and the environment. There's internal debate on whether to offer this for free since the cost is low. However, anything given for free is often undervalued. The challenge is ensuring customers see its worth rather than dismissing it as just another



Construction equipment demand depends on infrastructure, which relies on government spending.

free offering. We need to approach this carefully.

Regarding energy efficiency, the savings are significant. Compared to an inverter drive, which already exists, the key advantage is the lower upfront capital cost. Additionally, inverters fluctuate in speed, causing instability. Our system offers better stability and reliability—if an inverter fails, the compressor stops, but if the Stabilisor malfunctions, the compressor keeps running.

Will this technology completely replace VFDs, and what are the expected cost savings? Can it be retrofitted to compressors from any manufacturer, including competitors?

Regarding VFT, our solution is superior in both capital cost and reliability. If VFD fails, the machine stops, but with our system, that doesn't happen. In retrofitting, we can implement the S2 valve, even on competitor machines, but a full Stabilisor system (S1 and S2) must come from our factory. Even with only S2, stabilisation is ensured, though energy savings will be lower.

What are your capacity expansion plans for the next three to five years, and which countries or regions are your priority for selling this Stabilisor?

Our capacity strategy follows a long-term goal of reaching approximately \$2 billion by 2035-36. We break this into three-year plans, ensuring clarity on targets and required capacity. Our policy is to build capacity one year in advance—so for 2025-26, we will develop capacity for 2026-27.

For the Stabilisor, we will focus on five strategic regions: India, Australia, Europe, the USA, and Southeast Asia.

How would you assess the current state of the Indian construction equipment industry?

Construction equipment demand depends on infrastructure, which relies on government spending. More infrastructure development drives higher demand. However, this budget appears to have slowed infrastructure spending, so we'll have to wait and see the impact.





“We're boosting R&D in our technology centers.”

Schaeffler is driving India's industrial transformation with products tailored to local needs. As a key partner in the industrial and machine tools sector, Schaeffler India is committed to delivering higher value to its stakeholders.

Seshan Iyer, President, Bearings & Industrial Solutions, speaks on how the company is planning to grow its presence in the industrial and machine tools sector.



What steps has Schaeffler India taken to meet the increasing demand for construction equipment and machinery in India?

The construction equipment industry has experienced significant growth, and Schaeffler is fully committed to meeting the rising demand for such equipment in India. The company is actively taking several strategic steps to achieve this goal:

- **Capacity expansion at the Savli Plant, Gujarat:** Schaeffler India has been continuously ramping up its local manufacturing footprint through significant capex investments. In June 2023, the company inaugurated a new manufacturing hall at its Savli facility in Vadodara, adding over 10,000 sq m of production space. This expansion entails localisation of certain global manufacturing lines together with addition of new lines, which will enable the plant to produce mid- and large-sized roller bearings. This enhancement strengthens Schaeffler's ability to serve the growing needs of the construction equipment sector.
- **Investment in new facilities:** As committed, Schaeffler India has invested more than Rs 15 billion in last three years to bolster its manufacturing capabilities and ensure Schaeffler India is well equipped to cater to the growing demands of its customers. This includes the establishment of a new plant in Hosur, Tamil Nadu, which aims to producing transmission components and systems for segments of automobile that are integral to the construction machinery industry.
- **Focus on localisation and export**

growth: Schaeffler India's strategic investments are aimed at localising a wide range of bearing products, which will aim at reducing dependence on imports and will help us align with the Make in India initiative. The Indian construction equipment industry operates in a fiercely competitive market and with enhancing the local manufacturing capacities, Schaeffler India will be able to offer Schaeffler's worldclass quality and superior technology to meet the specific needs of the Indian construction equipment industry more effectively. Through these initiatives, Schaeffler India is well-positioned to contribute significantly to the growth of the construction equipment industry in India.

How is Schaeffler India planning to grow its presence in the industrial and machine tools sector, especially in construction equipment?

Schaeffler India recognises India's strategic importance and is actively taking steps to strengthen its footprints and grow its presence in the Indian construction machinery industry:

- **Collaboration with leading OEM:** Schaeffler collaborates closely with OEMs and other industry stakeholders to align its solutions with the rapidly changing needs of the Indian market. Our innovative and customer-first approach has resulted in Schaeffler India becoming the preferred partner for India's biggest automotive and industrial OEMs.
- **Capacity expansion and localisation:** As mentioned,

Schaeffler India has been ramping up its manufacturing to meet the market demands and grow with the Indian market. The company inaugurated a new manufacturing hall at its Savli facility in Vadodara, adding over 10,000 sq m of production space. This expansion entails Localising certain global manufacturing lines and addition of new lines, which will enable the plant to produce mid- and large-sized roller bearings. This enhancement strengthens Schaeffler's ability to serve the growing needs of the construction equipment sector.

Schaeffler India has a very diverse product portfolio. Our strong customer partnerships and worldwide operations enable us to have deeper understanding of customer challenges and their complex, diverse operating environments. This understanding of motion technology helps us excel in manufacturing high quality motion technology products and solutions that are better suited to meet the needs of our customers.

- **Technological innovation and electrification:** The industry in India is undergoing a significant transformation, with the shift towards electrification and adoption of predictive maintenance, industry 4.0 and other are driving the change. Our goal is to offer our customers products and technologies that enhance motion by making it smarter, cleaner, and safer. With our innovative and extensive product range, we position ourselves as a forward-thinking partner for construction equipment manufacturers.
- **Research and development:** Schaeffler India is investing significantly in expanding manufacturing facilities to cater to the increasing demand across industrial segments. Additionally,

we are also enhancing our technology centers to focus on R&D for cutting-edge solutions to drive continuous innovation in the construction machinery sector.

Through these strategic initiatives, Schaeffler India is solidifying its presence in the Indian construction machinery industry.

With mobility changing rapidly worldwide, what role do you see Schaeffler India playing in the future of mobility in both automotive and industrial sectors?

Schaeffler is actively shaping the developments of the future as we leap ahead with solutions that are founded on quality, technology, and innovation. We are actively positioning ourselves to influence the future of mobility within the industrial sector through several strategic initiatives:

- **Schaeffler India has set up a state-of-the-art Mechatronics centre at Pune while through the inorganic route, also has an electronics and hardware design centre at Bangalore.** While both these centres are catering majorly to the needs of Europe, specific projects for India needs are being worked upon. This brings in the capability of designing and developing solutions for both the IC engines as well as for the E Mobility and chassis applications.
- **Showcasing advanced mobility solutions:** At the Bharat Mobility Global Expo 2025, Schaeffler India presented a range of products and services tailored for combustion engines, hybrid vehicles, and electric vehicles. All these technologies will be contributing to the construction machinery segment as well.
- **Emphasis on sustainable and efficient technologies:** Schaeffler globally is investing heavily to develop products and solutions that contribute to CO₂ reduction,

electrification, and the development of intelligent motion technologies.

How are Schaeffler India's products designed to meet the needs of construction equipment makers and their customers?

Schaeffler India designs its products to meet the rigorous demands of construction equipment OEMs by prioritising durability, efficiency, and tailored solutions. Some of the key offerings include:

- **Comprehensive bearing solutions:** Schaeffler India has a very comprehensive bearings solution. The product spectrum includes rolling and plain bearings, linear and direct drive technology, as well as service features such as maintenance products and monitoring systems.
- **Tailored application support:** Schaeffler India provides tailored application support to meet the unique needs of construction equipment manufacturers.
- **A robust product portfolio:** Schaeffler India's product portfolio is designed to meet the diverse needs of the construction industry. It includes a variety of components, all engineered for the construction equipment industry. This robust portfolio ensures that Schaeffler can offer solutions for a wide array of applications. By combining advanced engineering techniques with a deep understanding of the construction industry's needs, Schaeffler India delivers products that improve the performance, safety, and efficiency of construction equipment.

How is Schaeffler aligning its operations with global sustainability goals, and what steps is the company taking to support the green transition?

Schaeffler India is committed to

the sustainability and has taken significant strides towards achieving these goals. Schaeffler India aims to:

- Achieve climate neutral production by 2030 by focusing on reduction measures
- Achieve climate-neutral supply chain by 2040
- Target to source all purchased electricity from renewable sources by 2024
- Implement measures to achieve cumulative annual energy efficiency (Link: <https://www.schaeffler-sustainability-report.com/2023>)
- targets reduction in Freshwater Withdrawal by reducing its freshwater usage by 20 per cent compared to the 2019 baseline, aiming to minimise water-related production risks.

How is Schaeffler India using condition monitoring systems to improve the performance and lifespan of construction equipment?

Schaeffler India combines smart condition monitoring and lubricant management to form one predictive maintenance solution. Key solutions from Schaeffler for condition monitoring solutions include:

- **OPTIME Ecosystem:** This comprehensive system combines smart condition monitoring and lubricant management to form one predictive maintenance solution. It utilises battery-powered vibration sensors to continuously monitor machinery health, providing early warnings of potential issues such as imbalances or misalignments. The system's intuitive mobile app offers maintenance teams real-time insights, facilitating timely interventions and reducing unplanned downtimes. Schaeffler will continue to develop and add new elements to the OPTIME Ecosystem based on the

experience gained in successful customer projects in various sectors and applications. In this way, the OPTIME Ecosystem will continue to optimally support the smooth operation of machines and facilities in the future by providing all relevant information at a glance.

- **SmartCheck:** A compact, modular online measuring system, SmartCheck is designed for continuous monitoring of machinery and process parameters. It's particularly effective in early detection of rolling bearing damage, imbalances, and misalignments in components like electric motors, pumps, and gearboxes. By providing real-time data, SmartCheck enables maintenance teams to address issues before they escalate, thereby extending equipment lifespan.

Data analytics is key in condition monitoring. What key metrics should manufacturers track to improve equipment performance and reliability?

Condition monitoring entails tracking a variety of parameters due to the complexity of the equipment and processes. There are several key metrics that must be evaluated to enhance equipment performance and reliability. These metrics are crucial for identifying inefficiencies, predicting potential failures, and optimising maintenance schedules. Some of them are mentioned below:

Reliability Metrics

- **Mean time between failures (MTBF):** It measures the average time equipment operates before failing. Higher MTBF indicates better reliability.
- **Mean time to repair (MTTR):** The average time needed to repair equipment after a failure. Lower MTTR means faster recovery.

- **Failure rate:** The frequency at which equipment fails over a specific period.

Maintenance metrics

- **Planned vs. unplanned maintenance ratio:** A high ratio of planned maintenance ensures fewer unexpected failures.
- **Preventive maintenance compliance:** Measures adherence to scheduled maintenance tasks to avoid breakdowns.
- **Condition monitoring alerts:** Tracking the number of early warnings from condition monitoring systems like vibration analysis or thermal imaging.

Performance metrics

- **Overall equipment effectiveness (OEE):** Combines availability, performance, and quality into a single measure of efficiency.
- **Equipment availability:** Percentage of scheduled time the equipment is available for operation.
- **Performance efficiency:** Measures actual vs. expected production speed.
- **Quality rate:** The percentage of defect-free products produced.

With the growing need for skilled workers in the construction equipment industry, how is Schaeffler India helping address skill gaps?

While Schaeffler does not directly contribute to skill development within the CE Industry, it plays a significant role in supporting skill enhancement across various industries by:

Schaeffler Technical Enhancement Program (STEP)

- **Technical training centres:** Launched in 2018, STEP focuses on enhancing the technical skills of underprivileged youth by providing state-of-the-art training facilities.

To read full interview, Log in to: www.EquipmentIndia.com



Atlas Copco launches new state-of-the-art facility in Pune

Atlas Copco Group has launched a new manufacturing facility in Talegaon, Pune. Spanning approximately 270,000 sq. ft., the new state-of-the-art plant will manufacture air and gas compressors and systems including CNG (compressed natural gas), biogas, hydrogen compressors, air dryers, N2 and O2 generators and medical filters and accessories. The launch, communicated in 2023, reinforces the Group's commitment to advancing innovative solutions while delivering high-quality products tailored to the local market.

The manufacturing facility is built



on Industry 4.0 principles, integrating smart manufacturing technologies and sustainability. Approximately 80 percent of the energy required for plant operations will be sourced from a 1.3 MW rooftop solar system and grid supply. The facility also includes

rainwater harvesting and advanced cooling systems. With a strong focus on support for research and development by Atlas Copco Group, the facility is equipped with multiple testing capabilities to meet both current and future production and product development needs. The company is certified with ISO 9001, ISO 45001, ISO 14001 and ISO 50001 certifications, ensuring the highest quality, safety, environmental and energy standards, supported by a robust internal audit system, quality management systems and Six Sigma methodologies that help improve business processes by reducing errors and increasing efficiency.

New myNORD from Nord Drivesystems

The new myNORD is a further development of the central customer portal of NORD DRIVESYSTEMS. The digital self-service solution focuses on a procurement process as efficient and transparent as possible. Thanks to advanced functions, the relaunch of the online tool allows for an easier configuration and ordering of drive technology than before. The expansion into an innovative and interactive e-commerce platform is making progress.

All configuration steps are carried out on one page. The features already selected and still to be selected are clearly displayed in a summary at the

right of the screen so that the user can easily keep an eye on them.

Various search options such as motor power, output speed or output torque facilitate the selection of the optimal drive technology. Thanks to the new plausibility check, the product configurator only displays those options matching the entered requests – for an error-free compilation of the required drive technology. Additional information and explanatory texts support the user and facilitate the configuration. Furthermore, online configuration and conformity checking of ATEX geared motors are also possible now.

JK Tyre expands its footprint in Gujarat

JK Tyre & Industries, has inaugurated a new JK Truck Wheels Centre in Gandhidham. Operated by Aadinath Tyres, the facility was inaugurated by Anshuman Singhania, Managing Director, JK Tyre & Industries, reaffirming the company's dedication to delivering premium products and services to the commercial vehicle sector. With Gujarat being a major hub connecting key industrial and trade corridors, the JK Truck Wheels centre is strategically located at Gandhidham which is well connected to national highways and is in close proximity to Mundra.

ABB, UptimeAI join forces for performance management

ABB Motion has announced a strategic investment through ABB Motion Ventures in the AI start-up UptimeAI, aiming to transform how industrial customers manage the health and performance of motors, drives, and related assets. The transaction consists of ABB taking a minority stake in UptimeAI. Financial details of the investment were not



disclosed. The collaboration leverages machine learning and expert systems to provide customers with deep

insights into asset performance, failure predictability, and reduction of maintenance costs and risks. With over 1,000 failure modes covered by advanced AI/ML algorithms, the partnership is set to deliver outstanding reliability and efficiency. It does so by leveraging next-generation asset performance management services driven by AI/ML.

TrucksUp launches 'TrucksHub'

Gurugram-based FTL aggregator platform TrucksUp, has introduced a groundbreaking innovation with the launch of TrucksHub, the industry's premier marketplace for used trucks. This platform is designed to bring order, transparency, and trust to India's highly fragmented and unorganised used truck market. With this, TrucksHub becomes a comprehensive one-stop solution for buying, selling, and exchanging trucks, while also offering appealing financing options for both new and used vehicles. The platform simplifies the entire process, making buying, selling, and exchanging trucks more convenient than ever. Buyers can browse through a diverse selection of

used trucks, featuring various brands and categories, all in one place. Additionally, all trucks listed on the platform come from verified sources, eliminating concerns about duplicate ownership or licenses. TrucksHub offers real-time expert inspection reports for verified trucks, ensuring top-notch quality and peace of mind. Its rigorous verification process ensures secure and trustworthy transactions for all users.

Apart from these, TrucksHub helps sellers achieve quicker turnaround times by connecting them with buyers across PAN India. For buyers, the platform offers exclusive deals on new trucks, allowing them to take advantage of a variety of promotions



and offers available on TrucksHub. Used truck buyers on TrucksHub benefit from wide selection and enjoy value for money with fair and transparent pricing. The initiative also provides an opportunity to Drivers become owners (Chalak to Malik)

TrucksUP promises comprehensive end-to-end support throughout the entire vehicle ownership cycle, starting from buying the truck.

JCBL delivers staff bus fleets to Mahindra & Mahindra

JCBL achieved yet another milestone by successfully delivering 106 custom-designed staff buses to Mahindra & Mahindra, within a record time of three months. Built on Mahindra's chassis platforms, these buses are tailored to meet the highest standards of comfort, safety, and durability. Designed with a strong focus on passenger experience, these buses feature 17-inch wide seats, driver's cabin partition, etc.

CPC to export lubricants to Bangladesh

Ceylon Petroleum Corporation (CPC) Chairman DJ Rajakaruna stated that that plans are in place to begin exporting lubricating oil within the next two months. He mentioned that Bangladesh has already placed orders for this purpose. The CPC Chairman, while addressing a function of the Ceylon Petroleum Corporation Employees' Union, further added, "Until now, our lubricant oil industry had completely collapsed. I am happy to say that we have been able to double our production during this period."

Enso Oils appointed distributors of G-Energy lubricants

Enso Group's Enso Oils & Lubricants has announced that it has become the official distributor of G-Energy, the lubricant brand of Gazpromneft-Lubricants in India and promote the brand in this market.

"The strategic partnership aims to revolutionise India's automotive and industrial markets," Enso Group said in a statement. "This collaboration designates Enso Oils & Lubricants as the official Indian distributor for G-Energy, renowned as a high-tech engine oil brand," it added.

ELGi Unveils Ground-breaking "STABILISOR" Technology

Air compressor manufacturer Elgi Equipments, which is the sixth largest air compressor supplier globally, aims to be in the top three by 2035-2036.

Unveiling its new technology "Stabilisor", Managing Director of Elgi Jairam Varadaraj told the media on Saturday (February 8, 2025) that the company plans to invest Rs 600 crore-Rs 650 crore in the next five



years to shift all its manufacturing facilities in Coimbatore to an integrated

campus. Its aspiration was to touch \$450 million in FY 26. Apart from the "Stabilisor" technology, it has four more ideas in the pipeline. Currently about 180 people are working in its research and development programmes. The company will use its existing capacity to manufacture "Stabilisor" for its air compressors and will roll it out progressively in the next 6-7 months.



Innovating for Road Sustainability

India's road infrastructure is crucial for economic growth, yet its environmental impact is significant.



India's road infrastructure plays a crucial role in economic development, but it also poses significant environmental challenges. With the rapid expansion of highways and expressways, the construction and maintenance of roads consume large amounts of natural resources and contribute significantly to carbon emissions. However, leading experts in the industry are pioneering sustainable practices to mitigate environmental impact and improve efficiency. At a webinar titled, "Paving the Future:

Making India's Roads More Sustainable", held on March 5, 2025, industry stalwarts gathered to discuss India's road infrastructure, exploring innovative solutions to address the environmental challenges posed by rapid expansion, and the adoption of sustainable practices for long-term economic and ecological benefits.

Transforming road asset management

Dr Zafar Khan, Joint CEO,



Dr Zafar Khan
Joint CEO,
Highway
Concessions One

Highway Concessions One, highlighted that roads rank among the least sustainable infrastructure components owing to high emissions from construction and maintenance.

"From an asset management

perspective, we have already taken key steps such as switching to LED lighting and integrating solar power wherever net metering is allowed by the Government," he said.

Despite these efforts, a major challenge remains fuel

consumption in maintenance activities, particularly in heating materials for road repairs. In response, Highway Concessions One has initiated a large-scale mangrove plantation project along India's coastal belt. "Mangroves have the highest carbon sequestration capacity and we are planting 50 lakh mangroves over a three-year period to neutralise our carbon footprint," shared Dr Khan.

Another promising development has been the use of plastic waste in road construction. "After six years of study, we have successfully used 500 tonne of plastic waste in constructing a 72-km National Highway stretch," he added. "While authorities remain cautious about widespread adoption, this initiative has demonstrated durability and environmental benefits." Innovations like video surveillance-based lighting, which reduces energy usage by optimising illumination based on traffic density, are also being explored.

Role of material innovation

Decarbonising road construction materials is a key area of research. **Satish Pandey, Senior Principal Scientist and Head - Flexible Pavement Division, CSIR - Central Road Research Institute (CRRI)**, emphasised the potential of alternative materials. "Road construction heavily relies on natural aggregates but we need to look at industrial waste alternatives like processed steel slag," he said.

One of the most promising advancements in this area is the adoption of steel slag roads, where natural aggregates are entirely replaced with steel industry byproducts. "CRRI has been working with industries to integrate steel slag into road layers," he added. "This

approach not only reduces carbon emissions but minimises the depletion of natural resources."

Recycling also plays a crucial role in sustainable road construction. "If we maximise the reuse of reclaimed asphalt pavement (RAP) up to 70 per cent, we can significantly cut down on the need for virgin bitumen and natural aggregates," Pandey pointed out. The use of blended cement, such as Portland slag cement, is another effective method to lower emissions. "By incorporating ground granulated blast furnace slag (GGBFS), cement consumption can be reduced by 40 to 50 per cent, cutting down carbon emissions from cement production," he added.

Addressing pavement durability

Dr Yonghong Ruan, Asphalt Technology Manager, Honeywell, emphasised the need for materials that can enhance the performance of asphalt, saying, "Pavement durability



Satish Pandey
Senior Principal Scientist and Head - Flexible Pavement Division, CSIR - Central Road Research Institute (CRRI)

is an ongoing challenge and we know that roads around the world are subject to thermal cracking, fatigue cracking and permanent deformation. These are all signs that the road needs better performance." To address these issues, Honeywell introduced Titan®, a polymer designed to modify bitumen to produce polymer-modified bitumen (PMB), significantly improving the overall performance of the pavement. Honeywell Titan® enhances the stiffness of the binder at high temperatures while improving its lubricity, making compaction easier and increasing pavement density. This results in smoother and more durable surfaces.



Dr Yonghong Ruan
Asphalt Technology Manager, Honeywell

Overcoming challenges

Despite technological advancements, regulatory and financial hurdles hinder widespread adoption. Dr Khan noted that economic considerations often dictate decision-making in infrastructure projects. "There is no lack of research or documentation - it's about economic viability," he asserted. "If a technology proves cost-effective, it will find its way into mainstream use."

Trust between authorities and concessionaires remains a challenge. Dr Khan highlighted that earlier contracts allowed for performance-based maintenance but recent shifts have reverted to fixed maintenance cycles. "Even if we propose innovative materials like RAP, authorities hesitate due to concerns over

commercial benefits," he pointed out. "If I take the risk, I should be able to reap the rewards."

Pandey agreed that regulatory reluctance slows innovation. "If new materials and technologies are already included in the Indian Roads Congress (IRC) guidelines, why should authorities resist their adoption?" He suggested that a comprehensive document consolidating all alternative approaches should be created to improve awareness and facilitate smoother implementation.

Incentivising sustainable practices

For sustainable road construction to become mainstream, policymakers need to implement incentive mechanisms. Dr Khan proposed that making alternative materials mandatory within a certain radius of production facilities could enhance their adoption. "When fly ash was mandated within 200 km of power plants, it became widely used. The same approach should be applied to

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Guwahati-Shillong



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Tezpur, Assam Project



Sambhalpur Project



Kharagpur Dankuni Project



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steel slag and plastic roads.”

Pandey emphasised the need for performance-based contracts instead of rigid specifications. “Globally, road quality is monitored based on performance metrics such as roughness and structural deflection. If contractors are required to maintain roads to a specific standard over five years, they will naturally adopt cost-effective and sustainable materials,” he reasoned.

Another potential approach is linking infrastructure financing to environmental criteria. “If 20–30 per cent of road project lending is tied to sustainability-linked bonds or green finance, concessionaires will be incentivised to integrate ESG (Environmental, Social, and Governance) principles into their projects,” Dr Khan noted.

Exploring the potential of bio-bitumen

Dr Gurunath Guduru, Manager – Pavement & Quality Assurance, Sekura India Management, shed light on the potential of bio-bitumen as a



Dr Gurunath Guduru
 Manager
 – Pavement & Quality Assurance, Sekura India Management

sustainable alternative to petroleum-based bitumen. “India is actively researching bio-bitumen applications and we have conducted test sections in collaboration with CRRI. While the material is still in its early stages, initial results are promising,”

he shared.

He also highlighted that hot and cold recycling technologies significantly reduce lifecycle costs. “By using additives tailored to project needs, we can extend pavement life and minimise maintenance. For instance, in the Northeast, we applied Honeywell Titan to combat rutting and moisture damage and the road remains in excellent condition a year later,” he said.

The way forward

For sustainable roads to become a reality, collaboration between additive manufacturers, researchers, and construction firms is essential. **Himanshu Pathak, Product Manager,**



Himanshu Pathak
 Product Manager,
 Honeywell

Honeywell, stressed the importance of data-driven decision-making. “Claims about sustainability need to be backed by rigorous testing and real-world trials,” he stated. “If an additive can reduce processing time

from 15 hours to five hours, we need verifiable data to substantiate these benefits.” Ultimately, the goal is to build long-lasting, environment-friendly roads without compromising on quality. “Sustainable road construction is not just about reducing emissions; it’s about optimising resources, improving durability, and making economic sense,” Dr Khan concluded.

India stands at a crossroads in infrastructure development. By integrating innovative materials, leveraging recycling technologies and creating policies that reward sustainability, the country can pave the way for a greener, more resilient road network. The momentum is there – now is the time to drive change.





Unlocking the Power of North East

India's North Eastern states, nestled between the Himalayas and the vast trade routes of Southeast Asia, have often remained untapped due to logistical challenges and limited industrial exposure. However, with investments, policy support, and infrastructure developments, this once remote region is rapidly transforming into a booming hub.



In the last ten years, with multiple Central and State level schemes, India's North East (NE) region has undergone a rapid transformation in terms of infrastructure, including rail & road connectivity, new industrial and technology parks, logistics hubs, and cold chains among others. With a significant increase in budget

allocation, rising from Rs 361 billion in 2014-15 to Rs 1,058 billion in FY2025-26, the North East is set for accelerated growth. The government's ambitious Unnati 2024 scheme further reinforces the commitment to industrialisation and economic expansion in the region.

In this context, the FIRST Construction Council (FCC) --

in collaboration with "Construction World", "Infrastructure Today" and "Equipment India" magazines -- hosted a webinar, titled "The Rising North East", on March 18, 2025 bringing together key stakeholders and experts to discuss the rapid transformation of India's north-eastern region. The event highlighted

infrastructure developments, investment opportunities, and strategic policies that are shaping the region's economic future.

The webinar featured insights from distinguished speakers, including **Manmohan Parkash**, Former Senior Advisor at the Asian Development Bank (ADB); **RE Zeliang**, General Manager, North Eastern Development Finance Corporation (NEDFi); **Sanjeev Patil**, COO, National Highways Logistics Management Ltd (NHLML); **Prashant Jain**, Vice President-Ropeways & Inter Modal Hub Infrastructure, NHLML; and **Pankaj Surana**, Director (Tax and Regulatory Services), Ernst & Young LLP. Their presentations covered critical areas such as regional connectivity, investment prospects, ropeway infrastructure, and fiscal incentives under Unnati 2024.

North East: Gateway to Southeast Asia

According to Parkash, the North



Manmohan Parkash, Former Senior Advisor, Asian Development Bank (ADB)

East region can play a strategic role as India's gateway to Southeast Asia and has the potential to become a trillion-dollar economy by 2050. He noted that the region's economic growth rates, ranging from 11 per cent to 29 per cent across various states, reflect its strong development trajectory. "The North East is endowed with rich resources, a young workforce, and geographical connectivity with ASEAN. By focusing on infrastructure, investment, and innovation, we can position the region as a key driver of India's economic expansion," stated Parkash.

He highlighted ongoing infrastructure projects such as the

India-Myanmar-Thailand Trilateral Highway and the expansion of regional airports in Guwahati, Agartala, and Silchar. Investments in high-speed rail connectivity and inland waterways, particularly in Assam, are expected to further enhance trade links with Southeast Asia. He also stressed the importance of integrating digital infrastructure to boost e-commerce, IT services, and fintech in the region.

Emerging investment opportunities

Providing a comprehensive overview of investment trends in the



RE Zeliang, General Manager, North Eastern Development Finance Corporation (NEDFi)

North East, **RE Zeliang**, General Manager, North Eastern Development Finance Corporation (NEDFi), emphasised that the region is now a prime destination for business expansion. He highlighted key sectors attracting major investments, including agro-processing, tourism, renewable energy, and manufacturing. "The North East is no longer just about potential; it is about tangible growth. With improved infrastructure, proactive state policies, and an entrepreneurial culture, this is the right time for investment," he noted.

He cited projects such as the Assam Semiconductor Manufacturing Plant and major investments from Tata, Reliance, and Adani in hospitality, pharmaceuticals, and real estate. The establishment of industrial parks in Tripura and startup incubation centres in Manipur are also facilitating a business-friendly environment. Additionally, he pointed out the region's growing connectivity with Bangladesh and Myanmar through

border trade agreements and logistics corridors, which are set to enhance cross-border commerce significantly.

Reducing costs with multimodal logistics parks

According to Patil, COO, National Highways Logistics Management



Sanjeev Patil, COO, National Highways Logistics Management Ltd (NHLML)

(NHLML), the development of multimodal logistics parks (MMLPs) can be a game-changer for North East India's supply chain ecosystem. He explained that India's logistics

performance index ranks lower than global counterparts, leading to high transportation costs. "To bring down logistics costs from 16 per cent to a single-digit percentage, the government is setting up 35 multimodal logistics parks, with a special focus on North East India", he said.

The MMLP at Jogighopa (Assam)—being developed by National Highways & Infrastructure Development Corporation (NHIDCL), a fully owned company of the Ministry of Road Transport & Highways, Government of India – is set to enhance connectivity via rail, road, and waterways. It will provide cold storage facilities, warehousing, and customs clearance, significantly benefiting the region's agricultural and export-oriented industries. Patil emphasised that these projects are being developed under PPP model, ensuring private sector participation in infrastructure development.

Ropeways revolutionising last-mile connectivity

Addressing the need for better last-mile connectivity, Jain introduced the Parvatmala Pariyojana, which aims to establish



Strong collaboration between the public and private sectors will allow the North East to emerge as a powerhouse of economic growth.

ropeway networks in hilly and remote areas. The North East has already proposed 33 ropeway projects, with key developments underway in Kamakhya (Assam) and Tawang (Arunachal Pradesh).



Prashant Jain,
Vice President -
Ropeways & Inter
Modal Hub
Infrastructure,
NHLML

“The terrain of North East India demands innovative transport solutions. Ropeways are not just about tourism, they will play a critical role in urban decongestion, logistics, and mobility for isolated communities”, Jain stated.

He explained that ropeways are eco-friendly, require minimal land acquisition, and offer a reliable transportation mode in challenging terrains. He also mentioned upcoming plans for an intermodal hub in Guwahati, integrating ropeways, airports, and highways for seamless travel.

Unnati 2024 for the progress of industries

To boost development of newer

industries in the region, the Union government launched Uttar Poorva Transformative Industrialization (UNNATI) Scheme in 2024. Surana provided an in-depth analysis of the Unnati 2024 scheme, a Rs 100 billion initiative, aimed at accelerating industrialisation in North East India. The scheme offers substantial incentives, including capital subsidies, interest subsidies, and GST-linked incentives, to encourage new businesses. “This is a once-in-a-generation opportunity for businesses to establish themselves in the North East. The government has ensured strong financial support, making it attractive for both new and expanding industries,” he said.

Under the scheme, new manufacturing units can claim up to 100 per cent reimbursement on net GST payments for ten years, while industries in backward districts receive capital subsidies of up to 50 per cent. Key sectors eligible for incentives include electronics,

pharmaceuticals, IT, tourism, and renewable energy. Surana stressed the urgency for businesses to register under the Unnati Portal by March 2026 to avail of the benefits, highlighting that over 300 companies have already applied.

Time to unleash true potential

The FCC North East Webinar 2025 highlighted the transformative changes unfolding in the rapidly developing region. With large-scale infrastructure projects, favourable investment policies, and government-led initiatives, North East India, while under construction, will soon become a major economic hub. As Manmohan Parkash concluded, “The time to act is now. With bold investments and strategic planning, the North East can become a shining example of sustainable growth, innovation, and global leadership.”

Strong collaboration between the public and private sectors will allow the North East to emerge as a powerhouse of economic growth, intertwining India into the dynamic markets of Southeast Asia.



Pankaj Surana,
Director (Tax and
Regulatory
Services), Ernst &
Young LLP



SMART AUTOMATION IN ROADBUILDING

Smart Automation in Roadbuilding stands for precise asphalt reclamation and paving along paths defined by digital terrain models. The data is made available via an open interface, automatically checked for practicability, transferred to the machines via wireless communication and then used for controlling the milling depth and screed position. Full integration in the machines leads to predictable results, higher precision, better quality and lower material consumption in asphalt construction.

The Wirtgen Group Solution Smart Automation in Roadbuilding has been nominated for the bauma Innovation Award 2025 in the category 'Digitalisation'.

Digital terrain models used for controlling machines are characterised by accuracy, predictability and precise compliance with target values. They simultaneously present a number of challenges in practice: Additional outlay for the registration and provision of data, planning, and skilled personnel for operating machines with 2D/3D machine control systems and for the installation of surveying/measuring equipment on the construction site. At the same time, the low data transparency leads to reservations on the part of machine operators when faced with complex technologies.

With Smart Automation in Roadbuilding, the Wirtgen Group provides new digitalisation and automation solutions for asphalt rehabilitation that enables easier utilisation of the advantages of digital terrain models and the solution of challenges in practice. The key components are the Work



Planner as a digital tool in the John Deere Operations Center, Smart LEVEL PRO for automation of the milling depth and cross slope on Wirtgen F-series large milling machines and Smart Pave for automatic control of the screed position – i.e. steering and screed width adjustment – in the case of the Vögele Dash 5 compact class tracked pavers.

Planning data that can be generated by all commonly used surveying and planning software solutions are made available in the Work Planner via an open interface. A model of the existing area and a model of the area to be milled are required for the automatic control of the milling machines. The Work Planner analyses and checks whether the data is usable for the automation process. Parameters such as the milling area, milling volume and minimum, maximum and average milling depths are displayed directly on the screen. The distribution of the different milling depths in the course of the project is also visualised. For automated asphalt paving, three lines defining the steering line and the two outer edges of the project area are provided to the Vögele pavers. This enables the realisation of considerably tighter tolerances in the paving process. The Work Planner shows users a clear overview of the area, length and orientation of the paving project.

A map-view option enables personnel without a background in surveying to easily localise and check the project. Site managers, surveyors and resource planners benefit from the transparency of the data, their practicability and the expected final result prior to the start of the paving project.

For the realisation of a project, the data can be shared with other contractors or transmitted to freely selectable machines from the operator's own connected fleet via cellular communication. The machine control systems are already fully integrated in both road pavers and cold milling machines and require no installation of additional components. Localisation of the machines with the necessary accuracy is enabled by a GNSS receiver with an RTK correction signal.

The operating concept couldn't be simpler: All the machine operator has to do is choose the desired control mode on the familiar control screen. Thanks to the Live-View of all relevant project data, the operator always knows which mode the machine is in and what actions and control commands can be expected. The automated processes considerably reduce the crew's workload and leads to a measurable increase in the precision and quality of the final results. A further advantage: Fewer surveying resources are required on-site in comparison to 3D and retrofit solutions. Smart Automation in Roadbuilding, the new digitalisation and automation solution from the Wirtgen Group, enables the realisation of precise and cost-efficient paving results in compliance with planned targets with the core construction crew and without the need for additional, specialised personnel.



Caterpillar's New 30-T Material Handler

Caterpillar has unveiled the MH3032, a new 30-metric-ton material handler that expands its range of equipment designed for scrap, waste, and recycling industries. This wheeled, excavator-like machine offers a maximum reach of 46.2 feet and a maximum height of 50.8 feet. It comes with a standard Cat orange peel grapple capable of handling 1.2 square yards of material.

The next-generation MH3032 has been built with enhanced productivity and efficiency in mind. It incorporates several technologies aimed at reducing operator fatigue and improving safety. Key features include:

- Cat Payload: Displays the load weight for each lift and continually tracks tonnage output.
- Cat 2D E-fence: Restricts the arm's movement to a predefined zone, ensuring safety and protecting the machine from damage.



- Swing Assist: Automatically halts the swing motion when the operator-defined preset point is reached.

The in-cab monitor also features dual external camera views to provide optimal visibility and awareness of potential hazards. The MH3032 is powered by a 201-horsepower Cat C7.1 diesel engine, and its extended maintenance intervals are made

possible by longer-lasting filters and fewer check points and hoses.

Weighing in at 79,000 pounds, the MH3032 fits between the MH3026 (64,370 pounds) and the MH3040 (86,000 pounds) in Caterpillar's material handler lineup. Caterpillar has been manufacturing material handlers since 1998, and today the company offers eight models in this category.

John Deere's P-Tier Articulated Dump Trucks

John Deere has introduced its next generation of articulated dump trucks, featuring the 260 P-Tier, 310 P-Tier, 410 P-Tier, and 460 P-Tier models. The 410 P-Tier and 460 P-Tier models now feature the updated 13.6-liter JD14 engine, replacing the previous 13.5-liter PowerTech 6135. All models come standard with an Advanced Vision System to improve jobsite awareness. The new trucks were first presented at Deere's 2025 Construction Field Days customer event in Sacaton, Arizona.



Kasey Kelly, product manager for Deere's articulated dump trucks, highlighted the improved engine reliability and increased serviceability

due to additional space in the engine compartment. A front-mounted button allows operators to lower the truck several inches for better access to engine components.

The JD14 engine features Hydraulic Lash Adjusters and integrated oil and coolant pathways, resulting in a 20 per cent reduction in repair time by

eliminating valve lash maintenance. The new High Pressure Common Rail (HPCR) fuel system improves fuel efficiency and overall performance.

Volvo's Straight-Boom Electric Mini Excavator

Volvo is set to offer a straight-boom version of its EC18 Electric mini excavator, specifically designed for demolition projects that require greater reach indoors. The 1.8-metric-tonne electric excavator will feature a straight boom that provides an additional 10 per cent pin height over the standard boom, ideal for reaching high ceilings while still fitting through doorways. Orders for this configuration will begin in mid-2025.

Tony den Hoed, director of demolition strategic accounts at Volvo, explains, "Contractors have asked for a straight boom on the

EC18 Electric for the extra reach it provides in indoor demolition work."

The straight-boom configuration offers a maximum working height of 13 feet with the bucket. The EC18 has a compact width of 39 inches and can handle attachments weighing up to 450 pounds. Additionally, Volvo will provide a factory-installed demolition guarding package for enhanced protection of both the operator and the machine.

Electric mini excavators, such as the EC18, are ideal for indoor applications due to their zero emissions and quieter operation.



With a 48-volt battery, the EC18 offers a runtime of 2 to 6 hours, depending on the task, and can be fully charged in as little as one hour with a DC fast charger.

Stellar Launches Updated Models of TMAX Aluminum Mechanic Truck

Stellar has unveiled the 2025 TMAX Aluminum Mechanic Truck, introducing a new strategy to launch updated models annually, similar to how car manufacturers release new vehicle models. This strategy is also applied to the company's Hybrid Power Source (HPS), which has also been refreshed for 2025.

Key improvements for the 2025 TMAX Aluminum Mechanic Truck include:

- Customizable compartment configurations with integrated mounting rails.
- Added holes for smoother wiring installations between compartments.
- 16-inch pull-handle drawer sets for better organization.
- Fewer welded holes for enhanced durability.



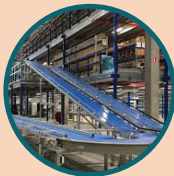
- A redesigned hydraulic reservoir filter for easier maintenance.
- Repositioned mudflaps to avoid exhaust system interference.
- Stellar's 2025 HPS features several updates:
- Flexible battery capacity, with options for upsizing or downsizing based on needs.
- Compatibility with both traditional internal-combustion-

engine and electric-vehicle chassis.

- A slimmer, lighter configuration without compromising performance.
- Direct integration with Stellar's cranes, compressors, and stabilizers.
- Quieter operation and consistent pressure even as flow increases.



CONVEYORS



1 | Chhattisgarh State Power Generation Company

Details: Tenders are invited for supply of flushing machine for hydraulic drive system of belt conveyor installed at CHP ABVTPS, CSPGCL, Janjgir-Champa.

Submission date: 4 April 2025

Location: Champa, Chhattisgarh

Tender value (Rs): 1,497,193

Contact: Superintending Engineer (Procurement) O/o The Addl. Chief Engineer (S&P), Janjgir-Champa-495669, Jharkhand. M: 09754230945, sepsns.marwa@cspc.co.in

2 | Rail Wheel Factory

Details: Tenders are invited for supply of bearing for hot wheel conveyor.

Submission date: 4 April 2025

Location: Bangalore, Karnataka

Contact: Principal Chief Materials Manager, Yelahanka, Bengaluru-560064, Karnataka. T: 080-28072706, 28072738, 28072714, 28072718, mmd@rwf.railnet.gov.in

3 | Neyveli Lignite Corporation

Details: Tenders are invited for supply of assembled bottom roller for 2,000 mm conveyor tripper track as per DRG NO DGM/CON/MII/7/2006.

Submission date: 3 April 2025

Location: Neyveli, Tamil Nadu

Contact: CGM, Materials Management, Neyveli-607807, Tamil Nadu

CRANES



4 | East Central Railway

Details: Tenders are invited for supply, installation, testing and commissioning of electric overhead travelling crane 20/7 tonne at Hajipur, Bihar.

Submission date: 14 April 2025

Location: Hajipur, Bihar

Contact: Hajipur, Bihar

5 | Defence Research and Development Organisation

Details: Tenders are invited for supply, installation and commissioning of knuckle boom crane and fabrication of load body on Bharatbe.

Submission date: 16 April 2025

Location: Kochi, Kerala

Tender value (Rs): 6,500,000

Contact: The Director, Naval Physical and Oceanographic Laboratory, Department of Defence Research & Development, Thrikkakara, Kochi-682021, Kerala

6 | Department of Atomic Energy

Details: Tenders are invited for Supply of Driven gear 10/2 tonne EOT crane.

Submission date: 7 April 2025

Location: Hyderabad, Telangana

Contact: Directorate of Purchase & Stores, Nuclear Fuel Complex, HRPV, ECIL Post, Hyderabad-500062, Telangana

7 | Eastern Railway

Details: Tenders are invited for supply of EOT crane 05 tonne capacity.

Submission date: 3 April 2025

Location: Adra, West Bengal

Contact: Senior Divisional Material Manager, Adra, West Bengal

DUMPERS

**8 | Urban Development Department Chhattisgarh**

Details: Tenders are invited for supply of hopper tipper dumper for garbage (Q2).

Submission date: 7 April 2025

Location: Bhilaicharoda, Chhattisgarh

Tender value (Rs): 9,100,000

Contact: Commissioner, Municipal Corporation Bhilaicharoda, Bhilaicharoda, Chhattisgarh

9 | Urban Development and Environment Department

Details: Tenders are invited for supply of twin bin dumper placer product material transport.

Submission date: 8 April 2025

Location: Jaisinghnagar, Madhya Pradesh

Contact: Sunita Baiga-Store Incharge, Nagar Parishad Jaisinghnagar, Jaisinghnagar, Madhya Pradesh

10 | Municipal Corporation Jodhpur

Details: Tenders are invited for Providing dumper with driver, maintenance, POL, etc. for two years for cleaning work in municipal area and other works of municipal corporation at Jodhpur.

Submission date: 8 April 2025

Location: Jodhpur, Rajasthan

Tender value (Rs): 48,000,000

Contact: Commissioner, Inside Poletechnical College Residency Road, Jodhpur-342001, Rajasthan.

T: 0291-2651464

EXCAVATORS

**11 | Indian Army**

Details: Tenders are invited for hiring of tracked excavator.

Submission date: 3 April 2025

Location: Kargil, Ladakh

Contact: Commanding Officer 104 Engineer Regiment, Kargil, Ladakh

12 | Indian Army

Details: Tenders are invited for hiring of tracked excavator 192.

Submission date: 3 April 2025

Location: Kargil, Ladakh

Contact: Commanding Officer 104 Engineer Regiment, Kargil, Ladakh

13 | Indian Army

Details: Tenders are invited for hiring of tracked excavator 121.

Submission date: 3 April 2025

Location: Kargil, Ladakh

Contact: Commanding Officer 104 Engineer Regiment, Kargil, Ladakh

14 | Eastern Coalfields

Details: Tenders are invited for supply of undercarriage assembly for BE1000 Excavator, Part No: 175UCSET02.

Submission date: 3 April 2025

Location: Paschim Burdwan, West Bengal

Tender value (Rs): 20912750

Contact: Arvind Kumar, Neamatpur, Post Sitarampur Paschim Burdwan, West Bengal

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Indian Cement Review	5400	810	4590	Titan Duffle Bag MRP ₹2150 + Century Laptop Backpack MRP ₹2,450
Industrial Products Finder	5400	810	4590	Titan Duffle Bag MRP ₹2150 + Century Laptop Backpack MRP ₹2,450
The Indian Textile Journal	5400	810	4590	Titan Duffle Bag MRP ₹2150 + Century Laptop Backpack MRP ₹2,450
Project Reporter (Digital Copy)	10500	1575	8925	VIP Strolley MRP ₹8500

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Indian Cement Review	9000	2700	6300	Titan Duffle Trolley MRP ₹3980 + Titan Duffle Bag MRP ₹2150
Industrial Products Finder	9000	2700	6300	Titan Duffle Trolley MRP ₹3980 + Titan Duffle Bag MRP ₹2150
The Indian Textile Journal	9000	2700	6300	Titan Duffle Trolley MRP ₹3980 + Titan Duffle Bag MRP ₹2150
Project Reporter (Digital Copy)	17500	5250	12250	VIP Strolley MRP ₹8500 + Titan Duffle Trolley MRP ₹3980

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in Tata Hitachi Construction Machinery

Glimpses from the launch event of Tata Hitachi's EX 350LC Prime hydraulic excavator held on 19th March 2025 at Hyderabad. The event was graced by our esteemed customers, senior management of Tata Hitachi and Recon Technologies, Tata Hitachi's authorized dealership. To know more, log on to: <https://lnkd.in/gehi6Pp3>

in KOBELCO Construction Equipment India

Witness the 20K machine production celebration – Snapshots of success! Kobelco Construction



Equipment India is proud to announce that we have reached a significant production milestone by rolling out our 20,000th excavator at our manufacturing plant in Sri City, Andhra Pradesh. KCEI is committed to environmental sustainability and technological advancement, aligning with the 'Make in India' initiative.

in Ammann India

Exciting Milestone at Nikhil Infratech! Another proud moment as we hand over the high-performance ABG 5320D Tracked Paver to Nikhil Infratech! This cutting-edge machine will set new benchmarks in precision paving and efficiency.

in CII Western Region

We are delighted to welcome Vinayak Pai, MD & CEO, Tata Projects (TPL), as the Chairman of CII Maharashtra State Council, and Deepak Garg, Vice Chairman & Managing Director, Sany India, as the Vice Chairman of CII Maharashtra State Council for 2025-26. Congratulations to the new leadership! We look forward to their vision and initiatives in driving Maharashtra's industrial growth and global competitiveness. CII Maharashtra State recently held its Annual Meeting 2024-25 in Mumbai under the theme 'Atmanirbhar Bharat - Atmanirbhar Maharashtra | Empowering Industries for Global Competitiveness'.



in Revival Infra Solutions

Multiple units of Brand New Schwing Stetter SPB 35 (Static Placer Booms) have been added to our rental fleet. These machines are ready to change the way concrete is poured at high-rise projects and will set newer standards of efficiency and safety. 35 m Boom Length and 540° slewing range, experience unparalleled concrete pouring from the basement till the floor.



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in Chandrashekar V

We just concluded two extraordinary days of customer engagement, technological innovation, and industry leadership, made even more special by the esteemed presence of Shri Nitin Gadkari, who graciously inaugurated our Integrated Facility at Butibori, Nagpur. His presence was a true honour, underscoring the significance of this milestone in redefining standards in India's infrastructure development equipment industry. This achievement stands as a testament to our unwavering commitment to empowering nation builders with technology.



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