Confederation of Indian Industry
Eastern Region

InfraMines

CII Mining and Construction Equipment Division Newsletter

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Message from MCED Chairman

As we step further into 2025, the mining and construction equipment (MCE) sector stands at a critical juncture marked by both remarkable opportunities and evolving challenges. The sector is valued at USD 830 billion and supports over 70 million livelihoods, making it a cornerstone of our nation's growth engine. From infrastructure development to energy security, the M&C sector is vital for India's progress.

The expansion of the MCE sector is projected to contribute over USD 100 billion to India's economy by FY30 including 20 million jobs directly or indirectly. This impact is driven by the growth of upstream and downstream industries, job creation and a boost to tax revenues.

Autonomous systems are reshaping operations, with fleets of autonomy-enabled trucks growing at over 14% CAGR, enhancing safety and productivity. Currently accounting for just ~4% of total coal output, underground mining in India is poised for a transformative push — the country targets a 3x production surge to 100 MT by FY2028, driving demand for longwall miners, tunneling tech & boosting domestic manufacturing. The surge in demand for critical minerals like copper, lithium, and rare earth elements—essential for renewable energy and electric vehicles—is redefining mining priorities worldwide, emphasising the sector's critical role in the global energy transition.

India is also emerging as a strong player in equipment exports. Segments such as concrete and road equipment have demonstrated impressive growth, reflecting India's increasing competitiveness in global markets. The sector's long-term outlook remains positive, supported by government initiatives like Make in India and Atmanirbhar Bharat, which are driving localisation efforts expected to reach 70-80% in the coming years, potentially saving USD 3 billion annually in foreign exchange.

Mr Vivek Bhatia
Managing Director & CEO
TKIL Industries Pvt Ltd

This edition of InfraMines has been carefully compiled to reflect the pulse of the industry. It brings together not just updates from the Division, but a rich mix of insights, trends, and news articles sourced from leading publications and stakeholder contributions. The objective is to equip our members with a comprehensive perspective of what's driving the sector forward—from policy reforms and technology shifts to market movements, sustainability efforts, and global developments.

As we continue engaging with ministries, state governments, and industry stakeholders, our focus is on creating actionable pathways: for policy alignment, skill development, MSME participation, sustainability integration, and technology infusion.

I encourage all our members to actively contribute to future editions by sharing insights, innovations, case studies, or policy perspectives. Your contribution will help us build an ecosystem that is both collaborative and forward-looking.

I thank each of you for your continued support and invite you to read, share, and reflect on the ideas in this edition of InfraMines.

About MCED

Mining & Construction Equipment Division (MCED) of the Confederation of Indian Industry (CII) has been serving the cause of mechanization and modernization and a vital value-adding link between manufacturers, suppliers and the government. As technology transforms the style and scale of the mining sector, CII MCED plays an important role in promoting an environment for stimulating growth of the sector through continuous engagement with Government & relevant stakeholders and Ease of Doing Business.

The major areas of interventions of the CII MCED are:

- Policy Advocacy for promoting an environment for stimulating growth of the sector through continuous engagement with Government
- Strategize and develop initiatives for improving the competitiveness of the industry by organizing capacity building initiatives, advocate adoption of global best practices
- Strategize and develop initiatives for promoting linkages with other countries to achieve the objective of promoting not only business development but also in the areas of research & development
- Harnessing opportunities to support Self Reliance “Atmanirbhar Bharat”
- Creating opportunities to engage more with the major PSUs and large-scale buyers
- To engage and encourage industry members to emphatically work on Environment, Social and Governance (ESG)

SECTORAL NEWS

India sets 42% coal output growth target by 2030

The ministry of coal has set a target to increase domestic coal production by 42 percent over the next 5 years, from1,080 million tonnes in 2025-26 to 1,533 million tonnes by 2030-31, Union Coal Secretary Vikram Dev Dutt said.

Source:
https://energy.economictimes.indiatimes.com/news/coal/india-sets-42-coal-output-growth-target-by-2030-amc-ime-2025-to-discuss-sector-outlook/119907771

Potash blocks auctioned for first time as India hands out 10 mining leases

The Government has successfully concluded the auction of 10 out of 15 critical and strategic mineral blocks put up for bidding under the fifth tranche launched on 28 January. These 10 blocks comprise critical and strategic minerals such as graphite, phosphorite, phosphate, rare earth elements, vanadium; and for the first time, potash and halite spread across Chhattisgarh, Karnataka, Madhya Pradesh, Odisha, Rajasthan and Uttar Pradesh.

Source:
https://www.livemint.com/news/potash-blocks-auction-mining-leases-coal-india-minerals-11748355851774.html

Captive, commercial coal output rises 24.57% to 16.43 MT in May; dispatch up 13.76%

Coal production from captive and commercial mines stood at 16.432 million tonnes (MT) in May 2025, registering a year-on-year growth of 24.57 percent compared to May 2024, according to data released by the Ministry of Coal. Dispatch from captive and commercial coal mines also increased during the month, reaching 17.499 MT, which marks a growth of 13.763 per cent over the same period last year.

Source:
https://energy.economictimes.indiatimes.com/news/coal/captive-commercial-coal-output-rises-24-57-pc-to-16-43-mt-in-may-dispatch-up-13-76-pc/121571821

India's coal production rises to 86.24 MT in May, stock up 29% from last year

India's coal production stood at 86.24 million tonnes (MT) in May 2025, a year-on-year increase from 83.96 MT recorded in the same month last year, according to provisional figures released by the Ministry of Coal. The increase reflects the rising contribution of captive and commercial mines to India's overall coal output.

Source:
https://energy.economictimes.indiatimes.com/news/coal/indias-coal-production-rises-to-86-24-mt-in-may-stock-up-29-from-last-year/121572758

Coal ministry surpasses asset monetisation target by Rs 63,000 crore

According to Government data, the Ministry of Coal has topped the leaderboard, surpassing its targets by record Rs 63,000 crore. Against a total target of Rs 1.38 lakh crore in four years since 2021-22, the Ministry of Coal monetised its assets to earn Rs 2 lakh crore – 45 percent more than the target. The record numbers indicate renewed confidence in the coal sector as the Indian government seeks to ensure energy security for the country through thermal power till the time firm renewable energy becomes affordable.

Source:
https://www.moneycontrol.com/news/business/coal-ministry-surpasses-asset-monetisation-target-by-rs-63-000-crore-13043796.html

Government working on incentivizing heavy mining equipment manufacturing

Coal Secretary Vikram Dev Dutt said that the Ministry is "actively" working with Coal India (CIL) to incentivise home-grown machinery manufacturers to produce mining equipment. The Centre is working on a plan to incentivize local manufacturing of heavy equipment for mining. Promoting the manufacturing of mining equipment in the country will also boost the Make in India programme.

Source:
https://www.thehindubusinessline.com/economy/govt-working-with-cil-incentivise-mining-equipment-manufacturing/article69404642.ece

"There is an element of import dependence especially in the import of heavy equipment. Although there are segments and elements where we have fairly good indigenous manufacturing capability, but we are actively working in close collaboration with CIL to see how indigenous manufacturing systems for machinery could be incentivised. So that is something work in progress," he said.

Govt earned 24% average revenue share via commercial coal mine auctions: Minister G Kishan Reddy

The Government has earned an average revenue share of 24.37 percent through commercial coal block auctions, with the highest revenue share (36.27 percent) earned through the 11th round of auctions, Union Minister for Coal and Mines G Kishan Reddy said. Minister Reddy also said going forward, sustainability will be a key in coal mining activities, adding that the government has no plan to reduce exploration and mining of fresh coal reserves.

Source:
https://www.moneycontrol.com/news/business/companies/govt-earned-24-average-revenue-share-via-commercial-coal-mine-auctions-minister-g-kishan-reddy-12977922.html

Mining equipment: Changing tactics

India's mining and construction equipment (MCE) industry is poised for significant growth, with localisation levels expected to increase to 70-80 per cent in the next 5-7 years, said ICRA in a report. It also noted that this shift could help the industry save nearly $3 billion in forex annually and boost India's cost competitiveness, enhancing its export potential.

Source:
https://www.constructionweekonline.in/business/mining-equipment-changing-tactics

NTPC to add 30 GW coal-fired power by FY32

NTPC Ltd plans to increase the capacity of its thermal power plants by 30 gigawatts by 2031-32 to meet the country's growing energy demand, according to a senior executive of the company. In order to meet this growing demand, the country needs to have affordable electricity which is not entirely possible with renewable energy as it needs energy storage solutions which increases the cost of power. Hence, India plans to continue to rely on coal-fired electricity until clean energy offers grid stability and affordability.

Source:
https://www.moneycontrol.com/news/business/companies/ntpc-to-add-30-gw-coal-fired-power-by-fy32-12992160.html

Mineral output climbs 0.4% in March; non-ferrous metals show strong gains

The mining and quarrying sector continues to show impressive growth, with the index of mineral production for March 2025 reaching 156.8, a 0.4 percent increase compared to March 2024. This positive trend is driven by significant increases in the output of key minerals like iron ore, manganese ore, and zinc concentrate.

According to the data released by the Ministry of Mines, iron ore production in March 2025 saw a substantial rise of 5.7 per cent to 25.9 million metric tonnes (MMT), while Manganese ore output grew by 9.7 per cent to 0.39 MMT, and zinc concentrate production increased by 5.5 per cent to 0.19 MMT during the same period.

Source:
https://energy.economictimes.indiatimes.com/news/coal/mineral-production-surges-in-march-2025-non-ferrous-metals-lead-growth/121626987

EXPERT VOICES

INDUSTRY 4.0 IN MOTION: SHAPING THE FUTURE OF INTELLIGENT MANUFACTURING

Mr Mehul Mohanka
Managing Director
Tega Industries

As the global economy navigates through rapid change, digitalisation has ceased to be a competitive advantage. It now has become the foundation of modern industrial relevance. The Fourth Industrial Revolution — commonly referred to as Industry 4.0, characterised by the convergence of advanced technologies such as the Internet of Things (IoT), Artificial Intelligence (AI), machine learning (ML), and cloud computing, is redefining how manufacturers innovate, operate, and deliver value.

According to a World Economic Forum report, manufacturers that have embraced end-to-end digital transformation report productivity increases of up to at least 30% and substantial reductions in energy consumption and maintenance costs. The transition from isolated automation to interconnected, and intelligent ecosystems marks a pivotal shift in global manufacturing dynamics.

The Pillars of Industry 4.0

- **Smart Automation:** More factories are now getting equipped with intelligent machines and robotics capable of self-regulation, adaptive learning, and autonomous decision-making. By reducing human involvement in routine tasks, smart automation has boosted efficiency and improved safety and consistency.

- **Industrial IoT (IIoT):** Sensors and embedded devices provide real-time feedback on equipment performance, product health, and environmental conditions. This stream of data enables predictive maintenance, reducing unplanned downtime by almost 50%, allowing companies to proactively address issues before they escalate.

- **Digital Thread & Traceability:** A digital thread, connecting data from design to delivery, offers end-to-end product visibility. It empowers manufacturers to monitor quality, track compliance, and rapidly trace anomalies, ensuring transparency throughout the supply chain.

- **Artificial Intelligence and Big Data Analytics:** AI-powered analytics uncover hidden patterns in production data, enabling smarter forecasting, dynamic scheduling, and agile supply chain management. Gartner reports that

31% of respondents in their study use AI for decision automation. In the same study 34% respondents use it for decision augmentation.

- **Cloud and Edge Computing:** By decentralising data processing, cloud and edge computing enable faster insights and real-time control over distributed operations. This reduces latency and enhances responsiveness in mission-critical environments.

- **Cybersecurity and Business Continuity:** As digital ecosystems expand, so do cyber vulnerabilities. Robust cybersecurity frameworks, including endpoint security, encryption, and continuous threat monitoring, are essential to safeguard intellectual property and ensure uninterrupted operations.

Driving Business Value Through Digital Integration

The adoption of digital tools also has strong sustainability implications. Smart energy management, digital maintenance, and paperless workflows contribute to reducing an organisation's carbon footprint.

Moreover, automation of core business processes ranging from human resources to customer engagement frees up talent for strategic innovation. Digitalised Manufacturing Processes, digital expense management, real-time inventory tracking, and integrated ERP systems provide better financial control and faster decision-making.

A Glimpse into Practical Application

At Tega Industries, a solution provider in mineral processing solutions, we exemplify the potential of digital transformation in traditional sectors. Tega's journey to upgrade to Industry 4.0 was initiated as a pilot project in our largest and state-of-the-art plant at Dahej in Gujarat. As a part of this initiative, all the machines and equipment were upgraded with IIoT sensors. Devices and the main controls were upgraded for digital networking for automated flow of real-time process data. Algorithms have been developed to create digital twin of all the processes including inter-facing of relevant processes. This enables real-time monitoring, control and decision-making unlike earlier when it was largely rear-view/post-mortem analysis and decision-making. This has ensured a quantum leap in reduction of rejections and improvement in product quality.

We have also automated our planning process to ensure real-time dynamic planning. This initiative has been undertaken with Siemens as technology partners. We understand the significance of industrial advancements by deployment of Industry 4.0. In line with the same spirit, we are actively working on developing

products which are IIoT powered. This will enable our customers to upgrade to Industry 4.0 in their manufacturing processes.

The Road Ahead

As we move deeper into the 2020s, digital-first manufacturing will become the norm, not the exception. This paradigm shift is expected to enable businesses to respond swiftly to market changes, mitigate risk, and unlock new value streams.

For India, the alignment of Industry 4.0 with government-led initiatives such as Digital India, SAMARTH Udyog, and the PLI scheme is creating fertile ground for the manufacturing sector to leapfrog into a digitally empowered future.

All aspects considered, the success of Industry 4.0 lies in its convergence of people, process, and technology. As manufacturers navigate this transformative journey, those who invest today in digital maturity will lead tomorrow's industrial renaissance.

FUELING THE FUTURE: MINING INDIA'S POWER POTENTIAL

Mr Ravi Todi
Managing Director
BTL EPC LTD

India's energy sector today is undergoing a profound transformation. While renewables gather deserved momentum, thermal power continues to form the bedrock of our electricity supply—accounting for over 55% of total generation. The Government of India has taken a pragmatic approach by not replacing but rather reforming the thermal segment. The strategy is clear: transition toward cleaner, smarter, and more sustainable thermal power systems that work in tandem with renewable sources to secure India's energy future.

To this end, several ambitious government initiatives are already in motion. Supercritical and ultra-supercritical technologies are now mandated for new plants, dramatically increasing efficiency and reducing emissions. A nationwide push for Flue Gas Desulfurization (FGD) systems is bringing Indian thermal power generation closer to international environmental norms. Likewise, blending agro-waste into coal feed is reducing dependency on fossil fuels while addressing air pollution from stubble burning. Meanwhile, pilot projects in Carbon Capture, Utilization and Storage (CCUS), and directives for the use of treated wastewater in thermal operations further reflect the government's forward-looking vision.

Yet, there is an often understated but vital element in this energy equation: Mining. Every unit of coal-fired electricity begins its life deep underground. As demand for thermal energy continues to grow, so does the demand for coal—requiring more efficient, safer, and environmentally responsible mining operations. Recognizing this, the government has taken proactive steps to modernize the mining sector. Through coal block auction, commercial mining liberalization, and the promotion of advanced underground mining technologies, the Government is encouraging higher productivity, greater private sector participation, and the adoption of next-gen mining equipment.

This momentum is reflected in the increased demand for sophisticated underground mining systems—from high-capacity material transport to worker safety and monitoring solutions. With a push toward deeper seams and more challenging geology, India's mining sector must now embrace technological excellence as a standard.

It is here that the Confederation of Indian Industry (CII) plays a pivotal role. CII, through its Mining Equipment Division, Energy Council, and Green Business Centre, serves as a vital bridge between government policy and industrial implementation. Its efforts in standardizing mining technology, promoting safety practices, and facilitating collaborative research are empowering stakeholders across the value chain. CII has also worked to demystify environmental compliance, support sustainable retrofitting, and promote digital transformation in both mining and thermal segments—critical interventions that are helping Indian industries stay globally competitive while remaining locally grounded.

At BTL EPC Ltd. We are proud to stand at this intersection of power and progress. As one of India's leading engineering and EPC companies, we bring together deep expertise in thermal power and underground mining equipment to deliver comprehensive, future-ready solutions. On the thermal front, our coal and ash handling systems power landmark projects such as Adani's 2×800 MW Raigarh plant, NTPC's coal handling systems at Talaipalli, and TSGENCO 5 X 800 MW Yadadri thermal Power plant in Telangana.

These systems are engineered for efficiency, environmental compliance, and adaptability—designed to meet the demands of today while preparing for the technologies of tomorrow.

Equally critical is our contribution to India's underground coal production ecosystem. Our dedicated Underground Mining Equipment Division supplies an integrated suite of high-performance mining products.

These products are deployed extensively across Coal India subsidiaries such as SECL, ECL, WCL, BCCL, SCCL and CCL, as well as in private sector mines. BTL EPC's mining equipment is known for its durability, ease of maintenance, and compatibility with modern automation systems—helping improve operational safety, throughput, and lifecycle costs in complex underground environments.

At BTL EPC Ltd., we see ourselves not just as solution providers, but as enablers of national growth. Our work reflects a deep commitment to sustainability, safety, and engineering excellence. We understand that powering the nation responsibly means engineering the entire value chain—from the face of the mine to the flame of the boiler.

GREENER MINING FOR A SUSTAINABLE FUTURE: TECHNOLOGY AS THE CATALYST

From the power in our homes to the devices in our hands, from highways and hospitals to wind turbines and satellites – mining forms the bedrock of modern civilisation. It's an industry we simply cannot do without.

But as the world grows more conscious of environmental boundaries, the challenge for mining is no longer just about extraction. It is about transformation. How do we mine the materials we need, without compromising the planet we share?

At Sandvik, we believe the future of mining lies in sustainable innovation – technology that not only powers progress but also protects it.

Mr Manojit Haldar
Managing Director & President,
Sandvik Mining & Rock Technology

The Case for Greener Mining

Mining is critical to economic development and global growth, particularly in fast-developing economies like India. Yet, it's also resource-intensive, energy-heavy, and environmentally sensitive. Moving towards greener mining practices is not optional - it's essential.

Sustainable mining is about reducing emissions, conserving natural resources, improving safety, and increasing efficiency. And it is here that digitalisation and electrification are unlocking real, measurable progress.

Powering Change with Battery-Electric Vehicles (BEVs)

Among the most transformative developments in mining sustainability is the emergence of Battery-Electric Vehicles (BEVs). Traditional diesel-powered mining equipment contributes significantly to underground emissions, heat, and noise. BEVs eliminate these issues at the source.

Sandvik's advanced range of BEVs is designed to deliver zero-emission operations while maintaining–or exceeding–the productivity of conventional diesel equipment. For underground mining, this means drastically reduced ventilation needs, lower operating costs, and a safer, cooler working environment. For the planet, it means reduced reliance on fossil fuels and a meaningful step toward carbon neutrality.

The adoption of BEVs is no longer a futuristic idea–it's a present-day solution. And Sandvik is proud to lead that charge.

Smart Automation: From Control Rooms to the Mine Face

Electrification is just one part of the sustainability puzzle. The other is automation–a revolution driven by data, connectivity, and control.

Sandvik's AutoMine® product group is at the heart of this shift. AutoMine® enables autonomous and remote operation of mining equipment, allowing operators to control multiple

machines from the safety of a central control room–minimising human exposure to hazardous environments while maximising equipment utilisation. Whether underground or on the surface, AutoMine® lets operations scale automation at their own pace, improving safety, productivity, and consistency.

On the analytics side, Sandvik's OptiMine® suite provides end-to-end visibility and optimisation across the mining value chain. It integrates real-time data from equipment, personnel, and operations to generate insights that drive smarter decision-making. Whether it's identifying bottlenecks, predicting maintenance needs, or streamlining fleet performance – OptiMine® enables more efficient, sustainable mining by making every input count.

Importantly, OptiMine® is designed to be OEM-agnostic, meaning it works across the entire mobile fleet, regardless of manufacturer–demonstrating Sandvik's commitment to industry-wide progress, not just product sales.

Mining Responsibly, Scaling Sustainably

India has one of the fastest-growing mining sectors in the world. As infrastructure, energy, and manufacturing ambitions rise, so will the demand for metals and minerals. The opportunity–and the responsibility–to build a greener mining future is immense.

At Sandvik, our mission is to empower miners with tools that are not only high-performing but also environmentally responsible. Whether it's electrified fleets, intelligent automation, or real-time process optimisation, we believe that mining and sustainability are not at odds–they are interdependent.

As an industry, we have the technology. We have the will. And with collaboration across the ecosystem–government, private players, and communities – we can ensure that progress below the ground mirrors our aspirations above it.

Because the world doesn't just need more mining. It needs better mining.

Let's mine with purpose. Let's mine for tomorrow.

OPERATIONAL ADVANTAGE OF PIPE CONVEYOR BELT IN MINING INDUSTRY

Mr Shekhar Kumar Dey
Sr. Vice President
Forech India Pvt. Ltd.

Belt conveyors have been widely used as an efficient way to transport bulk materials. The ubiquitous trough belt conveyors have the benefit of a high degree of reliability and availability, and low operating and maintenance cost. However, trough belt conveyors have limited capability to negotiate difficult terrains, mainly due to the limited horizontal curves they can withstand. Typical curve radii are about thousands of meters. Tubular pipe conveyors solve this problem by folding the belt into a smaller pipe cross section, which allows the belt to rotate within idler frames. The allowable horizontal curve radii are about hundreds of meters. This conveniently falls within the range of the horizontal curve radii of a typical paved road. As a result, pipe conveyors can be constructed alongside existing roads. Being more versatile in conveyor routing also avoids some of the property rights and land permitting issues, which are becoming more important in an increasingly crowded world. The open trough belt could raise concerns about materials spillage into the environment.

Folding the belt into the enclosed pipe shape separates the materials from the environment. This protects both the material and the environment, especially for dusty materials with fine particles. In certain cases, this also protects the material from being stolen.

This pipe conveyor is environmental friendly system because the material is confined within the pipe- shaped belt, the pipe conveyor is an environmentally friendly alternative to the standard troughed belt, where spilling and dusting do often happen. The Pipe Conveyor has a loading chute and skirt boards near the tail pulley, just like the standard conveyor belt. Then, it's time to roll it into the pipe shape and seal it at the top by folding the belt's edges back on themselves. Due to the pipe-shaped belt, there is no requirement for an enclosure. A standard pulley is used to open the belt and discharge the material as with an ordinary belt conveyor. It's called a transfer section when the belt changes shape from a pipe to a flat shape at the tail or head of the conveyor. The pipe-shaped conveyor belts are supported by and guided by hexagon-shaped idlers. As a result of the surrounding belt entirely enclosing the material, dusting and leakage are kept to an absolute minimum.

THE VALUE OF GROUND SUPPORT IN TUNNELLING AND UNDERGROUND MINING

Mr Awinash Kumar Jha
Vice President
Minova Runaya Private Limited

India's growth story in Infrastructure and Mining

India's economy continues to grow rapidly, with a real GDP of about 6.4% in FY2024–2025, fuelled by resource exploitation and significant infrastructure spending. Public capital expenditures have increased, with infrastructure capital expenditures totaling ₹3.01 lakh crore in FY2023–24 (5.7 times the amount in FY2013–14), and overall budgeted expenditures reaching ₹10 lakh crore. Roads, rail, power, and urban developments are being expedited by major efforts such as PM Gati Shakti and the National Infrastructure Pipeline ($1.3 trillion by 2025). According to the Economic Survey, maintaining overall GDP growth requires robust growth in the building, utility, and transportation sectors. In this regard, underground projects such as coal and mineral mines, hydropower tunnels, and highway and metro tunnels both propel and ride the wave of India's development, opening up resources for the economy, including energy and connectivity.

Outlook (Next Decade): As NIP and urbanization encourage further buildout, the infrastructure sector in India is expected to grow by around 8% annually, reaching about $280 billion by 2030. Due to demand from power projects, metros, and bullet trains, the tunnel construction equipment market alone is predicted to nearly treble (to around $890 million by 2033, at a 12.5% CAGR). On the mining side, continuous auctions of additional mineral blocks and targets such as 140 MT of coking coal by 2030 indicate that commodity output will continue to increase.

With the help of legislative changes (such as dedicated freight lines, logistical corridors, and domestic TBM manufacture) and strong projections for 6–7% GDP development, India's underground mining and tunneling industries are expected to grow by double digits.

The Importance of Ground Support

To meet the aspirations of India growth targets in Mining and Infrastructure, it's prudent to adopt seriousness towards a systematic and efficient ground support solution based on safety, operational and geological conditions requirement.

Ensuring the stability and safety of excavated spaces is crucial in underground mining (metal, non-metal thermal, and coal) and tunneling (roads, railroads, hydropower, etc.). In these demanding conditions, ground support systems are essential for preserving structural integrity, safeguarding employees, and facilitating effective operations.

Rock bolts, self-drilling anchors (SDA), resin capsules, wire mesh, steel fiber, and injection chemicals are the fundamental elements of ground support. Together, they provide a strong framework that reduces the hazards brought on by geological uncertainties.

Underground mining and tunneling entail digging through a variety of geological formations, which are frequently distinguished by faults, fractures, and varying rock strengths. These circumstances provide serious risks, such as ground deformation, rockfalls, and collapses, which can cause fatalities, disrupt operations, and increase expenses. The purpose of ground support systems is to maintain long-term structural stability, manage deformation, and stabilize rock masses. Installing the appropriate ground support system in accordance with operational and geological requirements is critical.

Effective ground support serves multiple purposes:

- **Safety:** Protects workers and equipment from rockfalls and collapses.
- **Operational Continuity:** Minimizes downtime caused by unstable ground conditions.
- **Cost Efficiency:** Reduces the need for costly repairs and remediation.
- **Project Viability:** Enables excavation in challenging geological settings, making otherwise infeasible projects possible.

Key Ground Support Products

The efficacy of ground support hinges on the strategic use of specialized products, each designed to address specific challenges in underground environments. Below is an overview of the primary components:

1. Rock Bolts

Rock bolts are the backbone of ground support systems. These high-strength steel anchors are installed into the rock mass to reinforce and stabilize it by transferring loads from unstable surface layers to deeper, more competent strata. Rock bolts come in various types, including mechanical, grouted, and friction-anchored bolts, each suited to specific rock conditions. The important criteria is to make sure that tensile strength and yield strength are consistent across the length of the bolt (including threaded area) to avoid failure at the threaded segment. Moreover, proper installation of anchor is as important as the design, so the design of non-threaded segment is critical for proper mixing of resin capsule. A paddle structure at non threaded end provides effective mixing of the resin capsule to ensure better and uniform encapsulation across the length of the bolt.

2. Self-drilling Anchors

Self-drilling anchors are vital in infrastructure tunnels and underground mines, providing rapid and reliable ground stabilization. These hollow steel bars integrate drilling, grouting, and anchoring in a single operation, reducing installation time and enhancing safety in challenging geological conditions. Their versatility suits soft soils, fractured rock, or mixed strata, ensuring structural integrity for tunnel linings and mine shafts.

The infrastructure industry will get benefit by large-scale indigenous manufacturing of the SDA to help secure the supply of this critical ground support system to meet rapid growth targets.

3. Steel Fiber:

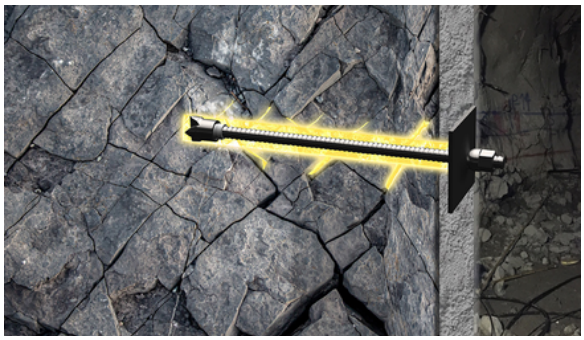
Steel fibres are widely used in infrastructure tunnels and underground mines to reinforce shotcrete and concrete linings. These small, high-strength fibers enhance tensile strength, crack resistance, and durability, improving the structural stability of tunnel and mine excavations. By distributing loads uniformly, steel fibers reduce maintenance costs and ensure long-term performance in harsh underground environments.

4. Wire Mesh

Wire mesh, typically made of galvanized and non-galvanized steel is installed over rock surfaces to contain loose fragments and prevent rockfalls. It acts as a flexible barrier that distributes loads across a wider area, complementing rock bolts and other support systems. The important feature of wire mesh is to have consistent weld strength and aperture size so that it can control surface spalling and retain small rock fragments. It is easy to install, cost effective and adaptable to irregular surfaces.

5. Resin Capsules

Resin capsules are chemical anchoring systems used in conjunction with rock bolts to provide a strong bond between the bolt and the surrounding rock. These capsules contain a two-part resin and catalyst that, when mixed during installation, cure rapidly to form a high-strength grout. The double film Catalyst & Mastic is separated by thin layer of film



capsule configuration enables extremely effective mixing of resin mastic and catalyst compartments without any foreign material contamination, lower limpness helps save time during insertion of resin capsules. The biggest advantage can be achieved by use of twin speedy as given below:

- **Increased Productivity:** Faster set times mean quicker cycle times for drilling and installation, leading to higher overall productivity.

- **Reduced Downtime:** Immediate support minimizes delays due to waiting for resin to set, allowing other operations to proceed swiftly

.

- **Cost Savings:** Reduced installation time and potential for fewer failures results in lower operational costs. Better load distribution prolongs the lifespan of bolts and anchors, reducing replacement and maintenance costs.

- **Safety Enhancement:** Immediate stabilization reduces risks to personnel and equipment, particularly in high-risk environments.

- **Versatility:** Suitable for a wide range of geological conditions, offering flexibility in operations and inventory management.

By providing both immediate and long-term support, two-speed resin capsules improve operational efficiency, safety, and cost-effectiveness for customers compared to single-speed alternatives.

6. Injection Chemicals

Injection chemicals, such as polyurethane or silicates, are used to stop ingress of water, fill voids, fractures, and weak zones in the rock mass. These materials improve rock cohesion, reduce permeability, and enhance overall stability. This is used to consolidate fractured rock, seal water inflows and improve ground conditions. The injection chemical is customizable and versatile, effective in variable geologies and capable of addressing dynamic ground issues.

Synergy of Ground Support Systems

The true strength of ground support lies in the integrated application of these products. For instance, rock bolts and resin capsules work together to anchor the rock mass, while wire mesh provides surface containment. Injection chemicals complement these systems by addressing deeper geological weaknesses. This synergistic approach ensures comprehensive stabilization, tailored to the specific geotechnical challenges of each project.

The Way Forward

As tunnelling and underground mining projects grow in scale and complexity, the demand for robust ground support systems will intensify. The industry must prioritize:

- **Research and Development:** Invest in next-generation materials and technologies to enhance system performance.
- **Skill Development:** Train engineers and workers in advanced ground support techniques.
- **Sustainability:** Adopt environmentally responsible practices in product manufacturing and application.
- **Collaboration:** Foster partnerships between industry, academia, and government to address geotechnical challenges holistically.

Conclusion

Ground support is the cornerstone of safe and efficient tunnelling and underground mining. Together, steel fiber, wire mesh, resin capsules, rock bolts, and injection chemicals provide a robust and adaptable system that addresses the inherent uncertainties of subsurface environments. The industry can guarantee that ground support systems continue to develop, enabling ambitious projects while protecting people and resources, by embracing innovation and best practices. As India and the world push the boundaries of underground construction, the criticality of these systems cannot be overstated—they are, quite literally, the foundation of progress beneath the surface.

We have been producing world leading ground support solutions to stabilise, consolidate, waterproof and repair underground and overground mining and infrastructure sites since the 1800s. Over 140 years later and our reputation for keeping workers safe is stronger than ever. When it comes to ground safety in mining and infrastructure projects, no one has a deeper knowledge of steel and chemical solutions than Minova; with a history of providing innovative ground safety solutions that spans more than 140 years.

With manufacturing plants across five continents, and operations in more than 25 countries, we offer our customers full portfolio solutions, consisting of a comprehensive range of bolting systems, injection chemicals, grouts, resin capsules and sprayable membranes, coatings, and services.

In India through our partnership with Runaya, we are driven by a commitment to always think one step ahead and an ambition to deliver the next generation of solutions, products, and support services our customers and prospects need.

At Minova Runaya Private Limited (MRPL) it's our endeavour to localize Minova global technology and solution in ground support systems to cater to India Infrastructure and Mining Industry. MRPL's Bhilwara manufacturing plant is one of the largest integrated steel and chemical solutions plant having ISO 9001& ISO 14001:2015,45001:2018 along with Zero discharge and emission certifications. Moreover, our sustainability focus is reflected in 70% of energy consumption through solar panels installed at our premises.

FUTURE OF INDIA'S MINING INDUSTRY

The future of India's mining industry is poised for a transformative journey, driven by technological innovation, sustainability, and strategic reforms. As the world increasingly prioritizes sustainable development and environmental stewardship, India's mining sector must adapt to ensure long-term viability and global competitiveness. Let us discuss the key trends and challenges.

Technological Advancements: The industry is witnessing rapid technological advancements, including automation, digitalization, and the use of Internet of Things (IoT), Artificial Intelligence (AI), and Machine Learning (ML). These technologies will enhance operational efficiency, safety, and productivity.

Sustainability: Environmental, Social, and Governance (ESG) principles are becoming central to mining operations. Companies are investing in green energy solutions, improving waste management, and adopting circular economy principles to reduce their environmental footprint.

Strategic Reforms: The government has introduced policies like the National Mineral Policy 2019 and the Mines and Minerals Amendment Act 2021 to promote sustainable mining practices and attract investments.

Critical Minerals: India is heavily dependent on imports of critical minerals like lithium, nickel, copper, and cobalt. The government has launched the National Critical Mineral Mission to secure India's supply chain and promote domestic production.

Mr Ranjit Ravindran
Head-Mining (All India)
UMPESL / VOLTAS

Let us elaborate this from both economic and sustainability perspectives.

Economic Perspective - Opportunities and Growth Drivers

Increasing Demand: Growing demand from core industries like infrastructure, transportation, and renewable energy will drive the mining sector's growth.

Government Initiatives: Initiatives like the Make in India campaign and Atmanirbhar Bharat Abhiyan will promote domestic production and reduce reliance on imports.

Exploration and Extraction: Heightened exploration and extraction of critical minerals like coal, iron ore, and rare earth elements will support India's economic growth.

Technological Innovation & Adoption: Adaption of advanced technologies like autonomous haulage systems, real-time fleet monitoring, and predictive analytics will improve operational efficiency and safety.

Sustainability Perspective - Challenges Ahead & Key Focus Areas.

Sustainable Mining Practices: The industry will prioritize environmental sustainability, social responsibility, and governance (ESG) principles. This includes reducing carbon footprint, implementing eco-friendly technologies, and ensuring community engagement.

Technological Advancements: The adoption of advanced technologies like automation, digitalization, and data analytics will improve operational efficiency, safety, and productivity.

Critical Minerals: India will focus on securing its supply chain for critical minerals like lithium, nickel, cobalt, and rare earth elements. This will involve exploration, extraction, and recycling.

Investment and Infrastructure: The government and private sector will invest in infrastructure development, including transportation, logistics, and storage facilities.

Skill Development: The industry will prioritize skill development and training programs to address the shortage of highly trained professionals.

The benefits and opportunities in these are -

Economic Growth: A thriving mining industry will contribute to India's economic growth, generating revenue and creating employment opportunities. China is a classic example of the same.

Increased Competitiveness: The adoption of advanced technologies and sustainable practices will enhance the industry's global competitiveness.

Diversification: The industry will diversify its mineral production, reducing dependence on traditional minerals and increasing the production of critical minerals.

Job Creation: The industry will create new job opportunities in areas like technology, sustainability, and community engagement.

By addressing these challenges and opportunities and promoting sustainability I can foresee the future of India's mining industry is quite promising, with technological innovation, sustainability, and strategic reforms driving growth and development. The industry and government must address challenges like environmental concerns, skill gaps, and land acquisition issues to ensure long-term viability and global competitiveness. By adopting sustainable practices, investing in technology, and promoting domestic production, India can unlock its true potential in the mining sector and contribute significantly to its economic growth.

MAJOR ACTIVITY OF MCED

MINING & CONSTRUCTION EQUIPMENT SUMMIT 2025

The Mining and Construction Equipment Division of CII organised its Annual Summit 2025 on 19 May 2025 in New Delhi, with the theme "Redefining Boundaries: Innovating a Sustainable Future". The summit brought together a distinguished gathering of industry leaders, government representatives, international stakeholders, and policymakers, promoting meaningful dialogue and collaboration. It aimed to develop a roadmap for the mining and construction equipment sector, focusing on sustainability, technological advancement, policy transformation, and global collaboration.

The deliberations pivoted towards carbon reduction technologies, the role of digitalisation, and India's readiness to responsibly harness its critical mineral reserves connected India's industrial might with its climate goals and global trade ambitions, offering a compelling vision of a sector ready to transform and lead sustainably.

A report on MCED was formally unveiled, marking a unified vision for growth, innovation, and policy alignment within the sector.

Dr Vijay Kumar Saraswat, Member, Niti Aayog, highlighted India's progress in modernizing mining operations, improving productivity, safety, and mechanization, and emphasized the importance of policy reforms, including simplified licensing processes and increased FDI opportunities. He strongly advocated for domestic R&D, MSME empowerment, and environmentally responsible practices, affirming that India is well on track to becoming a globally competitive and green mining economy. Speaking at the summit on the potential for bilateral cooperation, H.E. Ambassador Kenneth Félix Haczynski da Nóbrega, Ambassador of Brazil to India and Bhutan, underscored the natural complementarities between Brazil's abundant resources and robust green energy ecosystem, and India's

technological prowess and industrial scale. He noted that these synergies can unlock new avenues for sustainable development, bolster energy security, and strengthen economic and environmental ties between the two nations.

H.E. Ms Stella Nkomo, Ambassador of the Republic of Zimbabwe, emphasized the strong prospects for Zimbabwe–India collaboration. She pointed to Zimbabwe's rich mineral reserves and India's advanced technological and industrial capabilities as the foundation for a strategic partnership. With mining central to Zimbabwe's economic growth agenda, Ambassador Nkomo highlighted the timely opportunity to forge industrial linkages that deliver shared economic value and long-term development.

Mr Vivek Bhatia, Chairman, CII Mining and Construction Equipment Division & Managing Director & CEO, TKIL Industries Pvt. Ltd., emphasized the importance of building a resilient, innovative,

and sustainable ecosystem, stating that India's journey to global leadership in this sector would depend on embracing technology, promoting industry-government collaboration, and reinforcing domestic capabilities.

Mr Ravi Todi, Chairman – Eastern Region Council, CII Mining and Construction Equipment Division & Managing Director, BTL EPC Ltd., highlighted the significance of public-private partnerships and called for a deeper alignment between industry stakeholders and policymakers to strengthen India's position as a global manufacturing and engineering hub in the mining and construction equipment sector.

Mr Manojit Haldar, Chairman – Western Region Council, CII Mining and Construction Equipment Division, and Managing Director & President, Sandvik Mining and Rock Technology India Pvt. Ltd. moderated a dynamic

panel discussion on Harnessing Cutting-Edge Technologies. The session delivered a powerful message: industry players are not just enablers—they are driving forces of transformation. Discussions ranged from the need for clear policy frameworks to positioning India as a global export hub. Emphasis was placed on building indigenous technological capabilities, fostering trust, and investing in R&D to secure India's competitive edge on the global stage.

Mr. Manav Kohli, Chairman – Northern Region Council, CII Mining and Construction Equipment Division, and Executive Director & CEO, Gainwell Commosales Pvt. Ltd., moderated the panel discussion on Revolutionizing Mining for a Sustainable Future. He emphasized that while digitalization and low-emission equipment are vital, lasting impact requires holistic collaboration across policymakers, OEMs, and end-users. Stressing the importance of India-specific solutions tailored to local mining conditions and infrastructure realities, Mr. Kohli called for a shift in mindset—viewing sustainability not as a cost, but as a strategic value driver for long-term competitiveness and resilience.

A MCED report was formally unveiled by the dignitaries, marking a unified vision for growth, innovation, and policy alignment within the sector.

MCED IN THE NEWS

Mining and Construction Equipment sector poised to triple by 2030

A new industry report outlines how India's mining and construction equipment sector can evolve into a global manufacturing hub with the right policy and market interventions

RAVI SHANKER KAPOOR

HI-TECH areas such as artificial intelligence (AI), machine learning, and the Internet of Things (IoT) attract everyone—which is unsurprising, for cutting-edge technologies play a critical role in the world of business. This, however, doesn't mean that conventional sectors, such as mining and construction equipment (MCE), should be seen as passé.

A recent report by the Confederation of Indian Industry (CII) and A.T. Kearney Consulting, 'Path to Viksit Bharat: Making India a Global Manufacturing Hub in the Mining and Construction Equipment Sector,' has correctly highlighted the importance of the sector. In 2024, the global MCE market stood at $1.4 billion, with India contributing $16 billion. 'Looking ahead to 2030, India's MCE sector has the potential to more than triple in size—reaching upward of $45 billion, driven by domestic infrastructure buildout, mining modernization, and emerging export leadership.'

These actions are poised to catalyse substantial economic growth, generating a total of 20 million jobs by FY30. This includes direct employment in equipment, according to the CII-Kearney report. "The sector's expansion will drive demand in ancillary industries such as components, logistics, maintenance services, and industrial training, further amplifying its economic footprint."

Yet, the MCE industry faces persistent structural challenges that constrain its full potential. Key issues include regulatory delays in project execution, slow adoption of advanced technologies, and the lack of a central nodal agency to streamline coordination.

The report underlined high dependence on imports of skilled manpower, regulatory hurdles in underground mining expansion, and increasing pressure from low-cost international competitors; these factors weaken India's position in both domestic and global markets. These challenges are interconnected, collectively hampering profitability, investment in

The Confederation of Indian Industry (CII) and A.T. Kearney's latest report sheds light on the transformative potential of India's mining and construction equipment (MCE) sector, projecting a rise from $16 billion in 2024 to $45 billion by 2030. With recommendations including a dedicated nodal agency, targeted PLI schemes, and digital adoption, the report lays out a roadmap for creating 20 million jobs and boosting global competitiveness. However, it also cautions against over-reliance on state intervention, urging the industry to take a more proactive role in driving innovation and reforms.

tions reflects a shift in operational strategies. Fifth, digital integration through the IoT, telemetry, and autonomous technologies is redefining equipment usage. Caterpillar Inc., the report pointed out, now has an extensive IoT network, with over 1.2 million CAT machines and engines connected via telematics and feeding into CAT Digital's cloud platform. Nearly all new Caterpillar equipment is Internet-enabled, enabling customers worldwide to monitor health, optimize usage, and schedule proactive maintenance. Finally, the transition to cleaner technologies, catalyzed by the introduction of CEV Stage V emission norms, is fostering innovation in product design and performance.

To unlock this opportunity, a comprehensive 10-point action agenda is proposed. A central recommendation is the creation of a single nodal agency under the Department for Promotion of Industry & Internal Trade (DPIIT) to streamline policy and operational alignment across stakeholders. A dedicated production-linked incentive (PLI) scheme tailored for the MCE sector is critical to drive investment and innovation, the CII-Kearney report said. It also recommended regulatory clarity on vehicle homologation and extension of export-promotion programmes such as Remission of Duties & Taxes on Exported Products (RoDTEP) and Trade Infrastructure for Export Scheme (TIES).

Moreover, fast-tracking free trade agreements (FTAs), supporting global branding, and certification

The CII-Kearney report said six transformative trends are reshaping the MCE landscape. The first is the government's sustained investments in infrastructure projects. Second, the ongoing privatisation of coal mining is

and import duties can improve cost competitiveness, while a national R&D consortium and startup accelerator can spark innovation and attract global partnerships.

The CII-Kearney report also urges the industry to offer modular upgrades for equipment, allowing gradual integration of advanced features, expand underground and multi-mineral mining equipment portfolios, develop export-specific product portfolios, look to develop products that can be tailored to the specific needs of other regions and develop tailored financing solutions.

This report is more than an assessment; it offers a blueprint for transformation to all stakeholders. Less emphasis on government action and greater stress on deregulation, taxation matters, etc., would have made it better. Demand for a PLI scheme, for instance, is not in the spirit of economic reforms—especially, from the perspective of the votaries of liberalization like the CII and Kearney.

Further, the report recommends the constitution of a formal consortium comprising leading OEMs (both domestic and global), academia (for example, IITs and NITs), end users (both mining and construction), and research bodies (such as the Central Mechanical Engineering Research Institute) focused on piloting technologies critical to mining and construction, such as autonomous operation, electrification, lightweight materials, predict-

Mining & construction equipment sector to touch $45 billion by 2030, says Report

IANS
NEW DELHI

India's mining and construction equipment (MCE) sector, currently valued at $16 billion, is projected to grow at a 19% compound annual growth rate to touch $45 billion by 2030, according to a CII-Kearney report released on Monday.

India is now the fastest-growing MCE market among the top six global economies, surpassing even the US, Germany and Japan, the

The CII and Kearney's "vision report" has come up with recommendations aimed at making India a global manufacturing hub in the MCE sector. According to the report, the mining and construction sector, a key enabler of infrastructure, energy, and industrial growth, commands an $18 trillion global market and contributes 16% of global GDP. In India, this sector is central to national development-contributing 22% of GDP, ranking second only to China, and sup-

India's MCE market has recorded a rapid compound annual growth rate (CAGR) of 12 per cent over the past five years, to position the country as a key global player.

The expansion of the MCE sector is projected to contribute over $100 billion to India's economy by FY30 and create 20 million jobs directly or indirectly. This impact is driven by the growth of upstream and downstream industries, job creation, and a boost to tax revenues.

The report presents a bold Vision 2030 to position India as a global leader in India's MCE sector and outlines an action plan.

To realise the full potential of Vision 2030, the report recommends structural and policy initiatives. Institutionalising governance via a single nodal agency, PLI scheme tailored to MCE, accelerating exports through FTAs, establishing mutual recognition arrangements for Indian certification standards, and promoting technology adoption and automation.

SAG blog

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CII Urges Center to Lower Import Duties and Rationalize GST for the MCE Sector

A new report by Kearney and the Confederation of Indian Industry (CII) states that the cost competitiveness of the mining and construction equipment (MCE) sector should be improved rationalising Goods and Services Tax (GST) and import duties, which is crucial for the sector's growth.

This arises because of the discrepancy in the GST structure between components and final equipment surges the burden on manufacturers. There is an inverted GST framework in the of MCE. For instance, components like hydraulics and electronics are imposed to tax at 18 p while final equipment like crawler cranes, wheel loaders, and drilling rigs are levied at 12 per

Therefore, the report, Path to Viksit Bharat: Making India a Global Manufacturing Hub in th suggests rationalising GST and import duties to enhance cost competitiveness. It seeks to se

Steel Ministry Mulls Vertical at SAIL to Boost Iron Ore Production

In Other News

IDC Correspondent

SAIL, however, aims to scale up its overall installed capacity to 35 million tonnes per annum (mtpa) by 2030. Iron ore is a key raw material used in the manufacturing of steel through the blast furnace route. "A separate vertical will focus on increasing iron ore production in line with the company's expansion plans," he said

SAIL, however, aims to scale up its overall installed capacity to 35 million tonnes per annum (mtpa) by 2030. Iron ore is a key raw material used in the manufacturing of steel through the blast furnace route. "A separate vertical will focus on increasing iron ore production in line with the company's expansion plans," he said.

As SAIL is under the administrative control of the ministry of steel, it is India's third-largest iron ore producer with a network of 15 iron ore mines in the states of Jharkhand, Odisha and Chhattisgarh. The company also has four coal mines and three flux mines. In 2024-25, SAIL produced 33.78 MT of iron ore, 0.59 MT of coking coal, 0.84 MT of thermal coal, 1.31 MT of limestone, and 0.40 MT of dolomite.

Meanwhile, Coal India Ltd (CIL) said that the process of listing of two subsidiaries of Coal India Ltd - BCCL and CMPDI - has begun and draft papers would be filed soon with Sebi. "We are going to file a Draft Red Herring Prospectus (DRHP) soon and we are working on that," CIL director Construction Equipment Summit here.

The Indian Awaaz
The real voice of India

India's Mining & Construction Equipment Sector to surge to $45 bn by 2030: CII-Kearney Report

R. Suryamurthy

India is on the cusp of a significant economic transformation, with its mining and construction equipment (MCE) sector projected to surge to a staggering $45 billion by 2030, unlocking a monumental opportunity for the nation. This optimistic outlook comes from a comprehensive "Vision Report" titled "Path to Viksit Bharat – Mining & Construction Equipment sector," jointly released by the Confederation of Indian Industry (CII) and Kearney.

India can emerge as global MCE hub with tech integration, says NITI Aayog member

Speaking at the Mining and Construction Equipment Summit organised by the CII Eastern Region in New Delhi, Saraswat said that the roadmap depends on India's ability to integrate advanced manufacturing with intelligent systems design, indigenize critical components, and align with international performance and emission standards.

Saurav Anand · ETEnergyWorld

New Delhi: India has the potential to establish a $25 billion plus export market in the Mining and Construction Equipment (MCE) sector by 2030, NITI Aayog Member Dr Vijay Kumar Saraswat said on Monday.

Speaking at the Mining and Construction Equipment Summit organised by the CII Eastern Region in New Delhi, Saraswat said that the roadmap depends on India's ability to integrate advanced manufacturing with intelligent systems design, indigenize critical components, and align with international performance and emission standards.

"A multi-pronged strategy is essential—one that includes long-term demand visibility through infrastructure pipelines, accelerated adoption of Industry 4.0 practices, public–private R&D investments, and the development of a unified testing, validation, and certification ecosystem," he said.

BEML CMD address at CII's Mining and Construction Equipment event

PSU CONNECT Delhi, 15-05-25 – MINISTRY OF DEFENCE

Shri Roy joined fellow dignitaries in releasing a significant report titled "Path to Viksit Bharat: Making India a Global Manufacturing Hub in the Mining and Construction Equipment Sector."

New Delhi: At the CII's Mining and Construction Equipment event, Chairman and Managing Director of BEML Shri Shantanu Roy, delivered the inaugural address, reiterating BEML's unwavering commitment to innovation, national security, and sustainability. From Defence and Infrastructure to Mining and Rail & Metro, BEML has consistently played a pivotal role in India's growth story through indigenously developed, cutting edge technologies. Shri Roy also joined fellow dignitaries in releasing a significant report titled "Path to Viksit Bharat: Making India a Global Manufacturing Hub in the Mining and Construction Equipment Sector."

The Tribune

Home / Business / India has $45 billion opportunity in mining-construction equipment sector by 2030: CII-Kear...

India has $45 billion opportunity in mining-construction equipment sector by 2030: CII-Kearney report

Confederation of Indian Industry (CII), in collaboration with Kearney, a global management consulting firm, has come out with a 'Vision Report' for making India a global manufacturing hub in the mining and construction equipment sector.

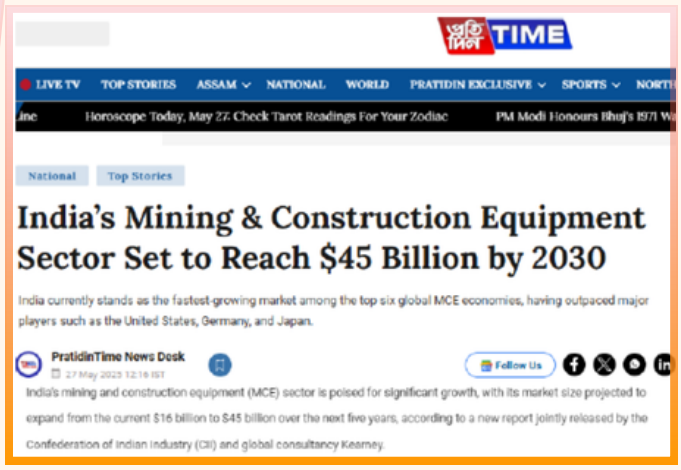
ANI

Updated At : 06:32 PM May 26, 2025 IST

New Delhi [India], May 26 (ANI): India is poised to unlock a USD 45 billion opportunity in mining and construction equipment sector by 2030, according to a joint report by CII-Kearney.

Confederation of Indian Industry (CII), in collaboration with Kearney, a global management consulting firm, has come out with a 'Vision Report' for making India a global manufacturing hub in the mining and construction equipment sector.

The report presents a bold Vision 2030 to position India as a global leade... and construction equipment (MCE) sector and outlines ...



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India's Mining & Construction Equipment Sector Set to Reach $45 Billion by 2030

India currently stands as the fastest-growing market among the top six global MCE economies, having outpaced major players such as the United States, Germany, and Japan.

PratidinTime News Desk

27 May 2025 12:16 IST

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India's mining and construction equipment (MCE) sector is poised for significant growth, with its market size projected to expand from the current $16 billion to $45 billion over the next five years, according to a new report jointly released by the Confederation of Indian Industry (CII) and global consultancy Kearney.

BEML Charts the Future of Indigenous Innovation in Mining and Defence, CMD Unveils Vision for 'Viksit Bharat' Through Smart Manufacturing

BEML Leads with AI and Autonomous Mobility in Defence and Infrastructure. CMD Shantanu Roy Highlights BEML's Role in Building a Self-Reliant, Tech-Driven India.

Indian Masterminds Bureau | May 19, 2025

Indian Masterminds Stories

At the Confederation of Indian Industry (CII) Summit, Mr Shantanu Roy, Chairman and Managing Director of BEML Ltd., delivered the inaugural address, highlighting the company's steadfast dedication to innovation, sustainability, and national security. From Defence and Infrastructure to Mining and Rail & Metro, BEML has been at the forefront of India's industrial transformation with ...ssfully developed, cutting-edge technologies.

India has $45 billion opportunity in mining-construction equipment sector by 2030: CII-Kearney report

ANI | May 26, 2025 | 237 views

According to a new CII-Kearney report, India is poised to unlock a $45 billion opportunity in the mining and construction equipment sector by 2030. The report highlights India's potential to become a global leader, with current market valuations at $16 billion and a projected 19% CAGR. It emphasizes the sector's critical role in infrastructure and industrial growth, contributing significantly to GDP and job creation. Key recommendations include policy shifts, export enhancements, and tech innovation to capitalize on Vision 2030.

> "India is now the fastest-growing MCE market among the top six global economies, surpassing even the US, Germany, and Japan." - CII-Kearney Report

New Delhi, May 2...

News Updates

BEML targets Rs 900 crore capex till FY'25, re-enters construction equipment space

BEML has allocated Rs 900 crore in capex over the next two fiscal years to modernize its facilities, invest in new technologies, and expand its manufacturing capacity

New Delhi: Bharat Earth Movers Limited (BEML) has outlined a capital expenditure of Rs 900 crore till FY'25 and re-entered the construction equipment market after a hiatus of nearly five years, aiming to capitalise on the Rs 45,000 crore market opportunity.

The company, formerly BEML, recently underwent a significant business restructuring, establishing 11 strategic business units (SBUs) and two micro business units to drive sustainable long-term growth.

...of this restructuring, we have re-entered the construction equipment ...capacity products to tap into the massive Rs 45,000 crore ...ging Director of BEML, told reporters on ...the CII

India Eyes Rs 3.7 Lakh Crore Opportunity in Mining Equipment by 2030

By UrbanNews | May 26, 2025

Share

India is set to unlock a $45 billion (approx. ₹3.7 lakh crore) opportunity in the mining and construction equipment (MCE) sector by 2030, according to a new report by the Confederation of Indian Industry (CII) and global consultancy Kearney.

Titled Vision Report 2030, the study outlines a roadmap to transform India into a global manufacturing hub in the MCE segment. Currently valued at $16 billion, the sector is projected to grow at a 19% compound annual growth rate (CAGR), driven by rising infrastructure demand, domestic manufacturing reforms, and global shifts in supply chains. The report positions India as t... fastest-growing MCE market among the world's top six economies—outpacing the US, Germany, an... Japan. The mining and construction sectors globally represent an $18 trillion market and contribut... 16% to global GDP. In India, these sectors contribute 22% to GDP and support over 70 million jobs, making them vital to national development.

The MCE segment alone could add over $100 billion to India's economy by 2029–30 and create 20... million jobs directly or indirectly. The report lays out key reforms needed to realise this opportunity. These include setting up a single nodal governance body, extending the Production Linked Incenti... (PLI) scheme to MCE, and accelerating exports through Free Trade Agreements (FTAs). It also ca... for mutual recognition of Indian certification standards, greater automation, green technology incentives, and a regulatory overhaul to revitalise underground mining and mineral beneficiation.

ভারতে খনি ও নির্মাণ সামগ্রীর ক্ষেত্রে বিশাল সম্ভাবনা

KOLKATA MUNICIPAL CORPORATION e-TENDERS

ABRIDGED NIT

The Executive Engineer (Roads,)KMC invites e-tenders online percentage rate two-bid system for the following works :-

1. NIT No.: KMC/ROADS/2025-2026/110 (1st Call)
Name of the Work: Repairing of potholes at different places of Hazra Road, Ballygunge Garden Road under Borough-VIII.
Estimate Amount (Incl. GST & CESS): ₹ 4,98,676.45. Earnest Money: ₹ 10,000.00. Period of Completion: 180 days.

2. NIT No.: KMC/ROADS/2025-2026/87 (1st Call)
Name of the Work: Repairing of potholes at different places of Gariahat Road (South), N.S.C. Bose Road, Raja S.C. Mullick Road, etc. under Borough-X. Estimate Amount (Incl. GST & CESS): ₹ 4,99,709.87. Earnest Money: ₹ 10,000.00. Period of Completion: 180 days.

अगले पांच साल में 45 अरब डॉलर का होगा खनन और निर्माण उपकरण क्षेत्र

नई दिल्ली। देश के खनन और निर्माण उपकरण क्षेत्र के अगले पांच वर्षों में बढ़कर 45 अरब डॉलर के स्तर पर पहुंचने की उम्मीद है। भारतीय उद्योग परिसंघ (सीआईआई) एवं किर्नी की रिपोर्ट के मुताबिक, वर्तमान में 16 अरब डॉलर मूल्य वाले खनन एवं निर्माण उपकरण (एमसीई) क्षेत्र के 2030 तक यानी पांच वर्षों में 19 फीसदी की चक्रवृद्धि दर से बढ़ने का अनुमान है। रिपोर्ट में एमसीई क्षेत्र में भारत को वैश्विक नेतृत्वकर्ता के रूप में स्थापित करने के लिए एक विजन-2030 प्रस्तुत किया गया है। इसमें आगे कहा गया है, भारत शीर्ष-6 वैश्विक अर्थव्यवस्थाओं में सबसे तेजी से बढ़ने वाला एमसीई बाजार है। साथ ही, यह अमेरिका, जर्मनी व जापान से भी आगे निकल गया है। रिपोर्ट के अनुसार, बुनियादी ढांचे, ऊर्जा और औद्योगिक विकास के प्रमुख प्रवर्तक खनन एवं निर्माण क्षेत्र का वैश्विक बाजार 18 लाख करोड़ डॉलर है। यह वैश्विक जीडीपी में 16 फीसदी का योगदान देता है। भारत में यह क्षेत्र जीडीपी में 22 फीसदी का योगदान देता है, जो चीन के बाद दूसरे स्थान पर है। खास बात है कि देश का खनन एवं निर्माण उपकरण क्षेत्र 7 करोड़ से अधिक लोगों को रोजगार मुहैया कराता है। एजेंसी

India's mining, construction equipment sector likely to reach USD 45 billion by 2030: Report

PTI - Last Updated: May 26, 2025, 05:10:00 PM IST

Synopsis

India's mining and construction equipment sector is poised for significant growth. A new report projects the sector will reach USD 45 billion by 2030. This represents a 19 percent CAGR. The Confederation of Indian Industry and Kearney collaborated on the Vision 2030 report. It aims to position India as a global manufacturing hub.

India's mining and construction equipment sector is expected to reach USD 45 billion in another five years, according to a report. "Currently valued at USD 16 billion, the sector is projected to grow at a 19 per cent CAGR, unlocking a USD 45 billion opportunity by 2030," according to CII-Kearney Report.

Manufacturing

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India's mining and construction equipment sector eyes $45 billion boost by 2030

Regulatory hurdles, complex ore processing, and competition from Chinese OEMs pose significant challenges that require strategic government intervention and industry collaboration to fully realise the sector's potential.

India's Mining and Construction Equipment (MCE) industry is on track to unlock a $45 billion market by FY30, driven by an ambitious government push to modernize infrastructure and enhance mineral self-reliance. However, deep-rooted structural and regulatory hurdles threaten to undercut this trajectory—especially in critical areas like underground mining, multi-mineral beneficiation, and global competitiveness.

This analysis is based on the report "Path to Viksit Bharat: Making India a Global Manufacturing Hub in the Mining and Construction Equipment Sector" by the Confederation of Indian Industry (CII) and Kearney.

Business Standard

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Mining, construction equipment sector to reach $45 bn by 2030: Report

India is now the fastest-growing MCE market among the top six global economies, surpassing even the US, Germany and Japan

India's mining and construction equipment sector is expected to reach $45 billion in another five years, according to a report.

"Currently valued at $16 billion, the sector is projected to grow at a 19 per cent CAGR, unlocking a $45 billion opportunity by 2030," according to CII-Kearney Report.

Confederation of Indian Industry (CII), in collaboration with Kearney, has come out with a Vision Report for Making India a Global Manufacturing Hub in the Mining and Construction Equipment Sector. The report presents a bold Vision 2030 to position India as a global leader in mining and construction equipment (MCE) sector and outlines an action plan.

India is now the fastest-growing MCE market among the top six global economies, surpassing even the US, Germany and Japan.

According to the report, the mining and construction sector, a key enabler of infrastructure, energy, and industrial growth, commands a $18 trillion global market and contributes 16 per cent to global GDP.

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India's Mining & Construction Equipment Sector to Reach USD 45 Billion by 2030

By Rediff Money Desk, New Delhi

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India's mining and construction equipment sector is projected to grow at a 19% CAGR, reaching USD 45 billion by 2030, making it a key player in the global market.

New Delhi, May 26 (PTI) India's mining and construction equipment sector is expected to reach USD 45 billion in another five years, according to a report.

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India's Mining And Construction Equipment Sector To Touch $45 Billion By 2030: Report

India's MCE market has recorded a rapid compound annual growth rate (CAGR) of 12 per cent over the past five years, to position the country as a key global player.

| Last Updated: May 26, 2025, 08:30 PM IST | Source: IANS

New Delhi: India's mining and construction equipment (MCE) sector, currently valued at $16 billion, is projected to grow at a 19 per cent compound annual growth rate to touch $45 billion by 2030, according to a CII-Kearney report released on Monday.

India is now the fastest-growing MCE market among the top six global economies, surpassing even the US, Germany, and Japan, the report states.

The Confederation of Indian Industry (CII) and Kearney's "vision report" has come up with recommendations aimed at making India a global manufacturing hub in the MCE sector.

According to the report, the mining and construction sector, a key enabler of infrastructure, energy, and industrial growth, commands an $18 trillion global market and contributes 16 per cent of global GDP. In India, this sector is central to national development—contributing 22 per cent of GDP, ranking second only to China, and supporting over 70 million jobs.

Upcoming Programme of CII MCED

Guided Factory Visit to Volvo Construction Equipment India

CII National Committee on Mining and Construction Equipment Division (MCED) is organizing an exclusive factory visit to the VOLVO Construction Equipment facility in Pune on Friday, 25 July 2025.

This visit offers a unique opportunity for members to witness best practices in manufacturing, process efficiency, and sustainability innovations at Volvo CE's plant in Bangalore. The facility specializes in crawler excavators, soil compactors, and asphalt pavers, integrating operations, technology, and sales functions. The visit includes a presentation by Volvo leadership followed by a plant tour, concluding with lunch. This experience aims to help participants enhance production capability and quality by learning from Volvo's global quality and productivity standards.

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Notes

Confederation of Indian Industry

The Confederation of Indian Industry (CII) works to create and sustain an environment conducive to the development of India, partnering Industry, Government and civil society through advisory and consultative processes.

CII is a non-government, not-for-profit, industry-led and industry-managed organisation, with around 9,700 members from the private as well as public sectors, including SMEs and MNCs, and an indirect membership of over 365,000 enterprises from 318 national and regional sectoral industry bodies.

For more 130 years, CII has been engaged in shaping India's development journey and works proactively on transforming Indian Industry's engagement in national development. CII charts change by working closely with the Government on policy issues, interfacing with thought leaders, and enhancing efficiency, competitiveness, and business opportunities for industry through a range of specialised services and strategic global linkages. It also provides a platform for consensus-building and networking on key issues.

Through its dedicated Centres of Excellence and Industry competitiveness initiatives, promotion of innovation and technology adoption, and partnerships for sustainability, CII plays a transformative part in shaping the future of the nation. Extending its agenda beyond business, CII assists industry to identify and execute corporate citizenship programmes across diverse domains, including affirmative action, livelihoods, diversity management, skill development, empowerment of women, and sustainable development, to name a few.

For 2025-26, CII has identified "Accelerating Competitiveness: Globalisation, Inclusivity, Sustainability, Trust" as its theme, prioritising five key pillars. During the year, CII will align its initiatives to drive strategic action aimed at enhancing India's competitiveness by promoting global engagement, inclusive growth, sustainable practices, and a foundation of trust.

With 70 offices, including 12 Centres of Excellence, in India, and 9 overseas offices in Australia, Egypt, Germany, Indonesia, Singapore, UAE, UK, and USA, as well as institutional partnerships with about 250 counterpart organisations in almost 100 countries, CII serves as a reference point for Indian industry and the international business community.

Confederation of Indian Industry

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