





7th Annual Conference on

# MINING TECHNOLOGY IN INDIA

## Best Practices & Promise of Technologies

April 16-17, 2018, Shangri-La's The Eros, New Delhi

***Organisers:***

POWERLINE

Indian Infrastructure

# MINING TECHNOLOGY IN INDIA

## Mission

- The mining industry has been facing tough times due to volatility in commodity prices. The prices of most minerals have shown a continuous decline in the recent past. As a result, increased pressure on margins has led mining companies to focus on performance improvement and cost efficiencies.
- The role of mining technology has thus assumed significant importance in the current scenario. Since the allocation of mineral resources through competitive auction processes requires initial as well as production-linked payments to the government, the efforts for improved efficiency, productivity and optimisation of resource deployment have been further stepped up.
- Moreover, the Cabinet's recent approval for auctioning of coal mines for commercial use by private players is also expected to lay greater emphasis on productivity, step up investments and allow the use of more advanced technology.
- There is greater demand today for technologies such as industrial automation and control systems, simulator-training, equipment control and guidance, advanced mine-surveying technologies, underground mining and surface drilling technologies, and machine guidance and control systems, which are compatible with enterprise resource planning software solutions.
- Companies are also looking for mining opportunities in new and geo-technically complex areas due to depleting grades of existing mineral ores. With mine depths increasing, the demand for underground mining and specialised equipment is increasing. A larger scale of operation in general has also resulted in an increase in the size of mining equipment. There is also significant focus on using more energy efficient equipment and reducing the consumption of diesel.
- Moreover, in a bid to optimise mine planning and design, companies are using advanced software packages. Software solutions are specifically used to model ore bodies, estimate reserves and resources, plan, engineer, design and help select equipment for both underground and surface mines.
- However, Indian mining companies are still at a nascent stage of technology adoption as compared to their global counterparts. There are several challenges that come in the way of adoption of these technologies. The initial investments are high. Mining companies are more focused on short-term costs than long-term benefits. Moreover, corruption in the procurement process often results in the selection of inappropriate technology and equipment.
- The need of the hour is to collaborate with global technology providers to assess the suitability of underground and other technologies. This will help achieve breakthroughs in a few projects and result in greater application of underground mining methods.
- Going forward, while the trend towards greater application of continuous mining systems, larger-sized equipment and greater energy efficient systems are sure to continue, automation and internet of things are likely to bring about significant changes in the Indian mining industry in the medium term.
- **The mission of this conference is to highlight the latest innovations, and most promising and relevant technologies for the mining sector in India. The conference will focus on new requirements and emerging best practices.**

## Target Audience

The conference is targeted at top and middle-level managers from:

- Coal producing/mining companies
- Producers/Miners of non-metallic minerals
- Power producers
- Crushing and grinding equipment manufacturers
- Equipment leasing and finance companies
- Inspection agencies
- Iron-ore producing/mining companies
- Mineral development corporations
- Steel manufacturers
- Policymakers and regulators
- Mining engineers and geologists
- Other technology providers
- Other metallic-ore producers
- Drilling and blasting equipment manufacturers
- Excavation and loading equipment manufacturers
- Modelling solution providers
- Safety solution providers
- Etc.

### *Previous Participants*

*The organisations that have participated in our previous conferences on "Mining Technology in India" include ABB, ACB, ACC, Adani Mining, Aditya Birla, Aggreko, APMDC, Andritz, Ashok Leyland, Atlas Copco, Australian Trade Commission, Balasore Alloys, BASF, BEML, Bharat Forge, Capstone Geoconsultants, Castrol, Caterpillar, Central Institute of Mining & Fuel Research, Central Mine Planning & Design Institute, Central Pollution Control Board, CLP Power, Coal India, Deloitte, Dextra, DSP Merill Lynch, DuPont, Eastern CoalFields, EDF, EDS Technolgies, EICL, Eimco Elecon, Elecon EPC, Elliot Geophysics, Engineers India Limited, ERM Consultants, Ernst & Young, Essel Mining, Exxon Mobil Lubricants, FL Smidth, Fugro Geotech, Gates India, GE Transportation, Geo Constech, Gmmco Limited, Government of Western Australia Trade and Investment Office, GSECL, Hazemag, Hindalco Industries, Hindustan Copper, Hitachi, Hyundai Construction Equipment India, IIT-ISM Dhanbad, IMFA, Indian Rare Earths, Indu Projects, Infotech Enterprises, Inspectorate Griffith, Institute of Minerals & Materials Technology, Jaypee Group, Jenissi Management Consultants, Jindal Steel & Power, Keltech Energies, Kennametal India, KSK Minerals, Lanco Infratech, Maaden, Maccaferri, Magnum Minerals, MAN Trucks, Marsh India, Metso Minerals, Mineral Exploration Corporation Limited, Ministry of Coal, Ministry of Mines Geological Survey of India, Modular Mining, Monnet Ispat & Energy, Nalco, NEERI, Neyveli Lignite Corporation, Nina Concrete, NMDC, Normet Underground Solutions, North East Coal Corporation, Northern Coalfields, NTPC, Oriental Rubber, PRD Rigs, PTC, PWC, Queensland, Government Australia, Rashtriya Ispat, Rio Tinto, Safire Capital Advisors, Sandvik, Shree Cement, Siemens, Singareni Collieries, South Eastern Coalfields, Strategic Decisions Group, TAM Construction Chemicals, Tata Steel, Technip, Tenova Delkor, Thiess India, Thriveni Earthmovers, ThyssenKrupp Industries, TIL, TMEIC, Utkal Alumina International, VE Commercial Vehicles, Volvo India, Weir Minerals, Wipro, etc.*

# AGENDA/STRUCTURE

## KEY TRENDS AND OUTLOOK

- What is the state of the mining sector in India? What are the recent trends and developments?
- What are the key challenges?
- What is the outlook?

## GOVERNMENT PERSPECTIVE

- What are the key policy developments in the mining industry?
- What initiatives are planned for promoting new technologies going forward?
- What are the key challenges?

## MINISTRY OF COAL'S PERSPECTIVE

- What is the Ministry of Coal (MoC) doing to encourage greater use of new technologies and automation?
- How is the opening of coal sector to commercial mining by private players expected to impact the industry?
- How will this policy measure encourage the use of advanced mining techniques and best practices?

## INDUSTRY/MDO PERSPECTIVE

- What are the new technologies that the MDOs are currently considering or using?
- What has been the experience so far in the adoption of these technologies?
- What are the key issues and challenges faced in technology adoption?

## ENERGY EFFICIENT EQUIPMENT AND TECHNOLOGY

- Which are the new and emerging energy efficient mining technologies and equipment?
- What impact do these solutions have on project cost and economics?
- What are the global best practices?

## MINING TECHNOLOGIES FOR COMPLEX GEO-MINING CONDITIONS

- What are the geotechnical investigation requirements for mining projects?
- What are the new technologies/equipment options being considered for mining in these conditions?
- What are the key challenges? How can they be addressed?

## FOCUS ON MINE SAFETY

- What are the technologies and advancements for improving mine safety?
- What has been the experience so far?
- What are the global best practices?

## TECHNOLOGIES FOR MONITORING AND RISK MANAGEMENT

- What are the various technology and equipment options being considered for monitoring and risk management (wireless gas and fire detection sensors, airflow monitoring, remote monitoring, belt and belt drive monitoring, etc.)?
- How has the uptake of these technologies been in India so far?
- What are the global best practices?

## EXCAVATION AND LOADING

- What are the current technologies being used for excavation and loading in India? What has been the experience so far?
- What are the key issues and challenges? What are the key global advancements and upcoming technologies?

## CRUSHING, SIZING AND SCREENING

- What are the current technologies being used for crushing, sizing and screening in India? What has been the experience so far?
- What are the key issues and challenges? What are the key global advancements and upcoming technologies?

## SURVEY AND EXPLORATION

- What are the current technologies being used for survey and exploration in India? What has been the experience so far?
- What are the key issues and challenges? What are the key global advancements and upcoming technologies?

## CUSTOMER NEEDS AND REQUIREMENTS

- What are the key emerging customer requirements with respect to mining technology?
- Which new technologies are you currently considering or using?
- What are the key issues/challenges? What are the expectations from technology providers/contractors?

## FOCUS ON COAL MINING

- What are most prevalent technologies in use in coal mining?
- What has been the experience? What are the key issues and challenges?
- What are the future needs and requirements? What are the recent global advances?

## TECHNOLOGIES FOR SUSTAINABLE MINING

- What are the green/sustainable mining solutions/technologies being considered for achieving more efficient mining?
- What have been the key initiatives in this area?
- What are the issues and challenges?

## ENVIRONMENT ISSUES AND CONCERNS

- What are the new and upcoming technologies to ensure adherence to environmental norms and standards?
- What has been the experience so far? What are the key issues and challenges?
- What are some of the global best practices?

## INTERNET OF THINGS FOR IMPROVING MINING EFFICIENCY

- What are the key drivers and advantages of IoT implementation in the mining industry?
- What are the cost implications?
- What are the key challenges?

## TECHNOLOGIES FOR SURFACE AND UNDERGROUND MINING

- What are the current technologies being used for surface and underground mining in India? What has been the experience so far?
- What are the key issues and challenges? What are the key global advancements and upcoming technologies?

## FOCUS ON GIS APPLICATIONS

- What are the key applications of GIS in the mining sector? What are the specific solutions on offer?
- What are some of the noteworthy projects and initiatives in this regard?
- What are the key issues, challenges and opportunities?

## Organisers

*The conference is being organised by* ***India Infrastructure Publishing****, the leading provider of information on the infrastructure sectors through magazines, newsletters, reports and conferences. The company publishes* ***Indian Infrastructure*** *and* ***Power Line*** *magazines. It also publishes the* ***Mining Directory and Yearbook*** *and a series of reports on the infrastructure/energy sectors including* ***Mining Equipment Market, Coal in India, Coal-based Power Generation,*** *etc.*

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## Registration Form

☐ I would like to register for the conference. I am enclosing Rs_____vide cheque/demand draft no._____ drawn on _____dated _____ in favour of **India Infrastructure Publishing Pvt. Ltd.** payable at New Delhi.

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## Registration Fee

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| Delegates | INR | GST @ 18% | Total INR | Total USD |
| One delegate | 25,000 | 4,500 | 29,500 | 492 |
| Two delegate | 40,000 | 7,200 | 47,200 | 787 |
| Three delegate | 55,000 | 9,900 | 64,900 | 1,082 |
| Four delegate | 70,000 | 12,600 | 82,600 | 1,377 |

- **Registration will be confirmed on the receipt of payment.**
- **To register online, please log on to http://indiainfrastructure.com/conf.html**

**Payment Policy:**

- Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference material.
- Payments for "early bird" registrations should come in before the last date of discount. Discount offers cannot be combined with any other offer.
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