



6th Annual Conference on

MINING TECHNOLOGY IN INDIA

Increasing Productivity and Efficiency: New Requirements and Solutions

April 18-19, 2017, The Imperial, New Delhi

Organisers:

POWERLINE

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MINING TECHNOLOGY IN INDIA

Mission

- In 2015-16, the index of mineral production grew at little over 2 per cent as compared to 1.5 per cent in 2014-15. Production of most minerals witnessed positive growth during this period. In the current financial year till November 2016, the index grew at 0.3 per cent. With regard to allocation of mines, so far, 83 coal mines have been allocated, of which 31 have been allocated through auctions. Seven coal mines have been allotted for commercial mining. Besides, till December 2016, the Ministry of Mines has auctioned 19 mineral blocks.
- There is renewed focus in the sector on mine productivity improvement, cost efficiencies and safety while reducing the environmental impact of mining operations. Policy initiatives such as the Mines and Minerals (Development and Regulation) Amendment (MMDR) Act, 2015; National Minerals Exploration Trust Rules, 2015; MMDR (Amendment) Act, 2016; the proposed opening of commercial mining to private sector from 2017-18; etc. are expected to drive industry growth and thus, demand new equipment and technologies.
- Mining companies are using advanced software packages for mine planning and design. With growing mineral production, there is a greater thrust on improving safety standards for better control of hazards. MDOs are bringing in the latest technologies and mine management practices. With mine depths increasing and ore grades depleting, the demand for underground mining and thus specialised equipment is increasing. With a larger scale of operations, the size of mining equipment being used has also increased.
- In 2016, the Ministry of Mines launched the Mining Surveillance System to track illegal mining activity via remote sensing technology. It also plans to establish a mining tenement system, which would involve automating the entire mineral concession life cycle and connecting the various stakeholders for real-time transfer of electronic files and exchange of data.
- However, India still has a long way to go in terms of technology usage in mining. Underground mining continues to be done through intermediate technologies like side discharge loaders and haul discharge loaders. The size of equipment being used in India is relatively small as compared to that being used globally. The key factors impeding technology adoption in India are more attention being given to short-term costs rather than long-term realisation of benefits, geo-technical difficulties, etc.
- Going forward, the opportunities for technology and equipment providers are enormous. Demand for new technology solutions exists across all segments of the Indian mining sector, from exploration to mine planning to extraction of minerals. This will create a demand for automation and control systems, simulator training, equipment control and guidance systems, advanced mine-surveying and exploration technologies, underground mining and surface drilling technologies, etc. The shift towards sustainable mining is driving the demand for innovative solutions.
- **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
- Iron-ore producing/mining companies
- Mineral development corporations
- Producers/Miners of non-metallic minerals
- Other metallic-ore producers
- Drilling and blasting equipment manufacturers
- Power producers
- Policymakers and regulators
- Modelling solution providers
- Steel Manufactures
- Surveying companies
- Geotechnical investigation companies
- Equipment manufactures (Excavators, loaders, crushers and grinders)
- Conveyor systems providers
- Equipment leasing and finance companies
- Dredging Companies
- Safety solution providers
- Inspection agencies
- Logistics Companies
- Other technology 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, Brunel India, Birla Cement, 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 Merrill Lynch, DuPont, Eastern Coalfields, EDF, EDS Technologies, EICL, Elmco Elecon, Elecon EPC, Elliot Geophysics, Engineers India Limited, ERM Consultants, Ernst & Young, Essel Mining, Exxon Mobil Lubricants, FL Smidth, Fugro Geotech, Geo Brugg, Gates India, GE Transportation, Geo Constech, Gmmco Limited, Government of Western Australia Trade and Investment Office, GSECL, Hazemag, Hindalco Industries, Houtec, Hindustan Copper, Hitachi, Halbach & Braun Industrieanlagen GmbH & Co, Harsha Engineering, Hyundai Construction Equipment India, IIT-ISM Dhanbad, IMFA, Indian Rare Earths, Indu Projects, Infotech Enterprises, Inspectorate Griffith, Institute of Minerals & Materials Technology, Jaypee Group, Jenissl Management Consultants, Jindal Steel & Power, Keltech Energies, Kennametal India, KSK Minerals, L&T, Lanco Infratech, Lester Technologies, Linnhoff, 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, Megaplast, Monnet Ispat & Energy, Nalco, NEERI, Neyveli Lignite Corporation, Nina Concrete, NMDC, Normet Underground Solutions, National Institute of Technology Karnataka, North East Coal Corporation, Northern Coalfields, NTPC, Oriental Rubber, PRD Rigs, PTC, PwC, Prism Cement, Queensland, Government Australia, Rashtriya Ispat, Rio Tinto, Safire Capital Advisors, Sandvik, Shree Cement, Siemens, Singareni Collieries, South Eastern Coalfields, Scanla, Strategic Decisions Group, TAM Construction Chemicals, Telangana Genco, Tata Steel, Technip, Tenova Delkor, Thless India, Thriveni Earthmovers, ThyssenKrupp Industries, TIL, TMEIC, Utkal Alumina International, USG, VE Commercial Vehicles, Volvo India, Watson Marlow, Weir Minerals, Wirtgen Group, 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 have been the key policy developments in the mining industry?
- ❖ What policy developments can be expected in the near future?
- ❖ What are the key issues and challenges?

MDO MODEL

- ❖ What is the role of MDOs in improving mining practices in India?
- ❖ What has been the experience so far?
- ❖ What are the key issues and challenges?

SURFACE MINING

- ❖ What are the current technologies being used for surface 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?

UNDERGROUND MINING

- ❖ What are the various equipment and technologies used for 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?

SAFETY IN MINING

- ❖ What are the technological advancements in improving mine safety?
- ❖ What has been the experience so far? What are the key issues and challenges?
- ❖ What are the global best practices?

SUSTAINABLE MINING TECHNOLOGIES

- ❖ What are the steps being taken for bringing in sustainability in mining operations?
- ❖ What are the technology options available in this regard?
- ❖ What are the key issues and challenges?
- ❖ What are some of the global best practices?

ENVIRONMENTAL ISSUES

- ❖ 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?

SURVEY AND EXPLORATION

- ❖ What are the current technologies used for survey and exploration in India?
- ❖ What are the costs and technical characteristics?
- ❖ What are the future needs and requirements?

UNDERSTANDING GEOTECHNICAL REQUIREMENTS

- ❖ What are the geotechnical investigation requirements for mining projects?
- ❖ How do they impact the choice of mining technique/equipment?
- ❖ What are the key challenges? How can they be addressed?

EMERGING CUSTOMER 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?

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?

DRILLING AND BLASTING

- ❖ What are the specific drilling and blasting requirements of the Indian mining sector?
- ❖ What are the most promising and relevant technologies?
- ❖ What has been the experience so far?

CRUSHING AND CONVEYING

- ❖ What are the specific requirements in crushing and conveying?
- ❖ What are the most promising and relevant technologies?
- ❖ What has been the experience so far?

EXCAVATION AND LOADING

- ❖ What are the specific requirements in excavation and loading?
- ❖ What are the most promising and relevant technologies?
- ❖ What has been the experience so far?

TRANSPORT AND LOGISTICS

- ❖ What are the trends regarding transport and logistics in mines?
- ❖ What are the challenges faced by mining companies in this regard?
- ❖ What are the most promising and relevant technologies?

IT AND AUTOMATION IN MINING

- ❖ What is the role of IT and automation in mining?
- ❖ What is the current status of IT adoption by the mining industry?
- ❖ What is the future outlook?

INTERNET OF THINGS (IoT)

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

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: Outlook, Opportunities and Projections**, **Coal In India**, **Coal Based Power Generation**, etc.

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Two delegates	40,000	6,000	46,000	767
Three delegates	55,000	8,250	63,250	1,054
Four delegates	70,000	10,500	80,500	1,342

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

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