



4th Annual Conference on

# MINING TECHNOLOGY IN INDIA

Emerging Requirements, New Challenges and Best Practices

April 29-30, 2015, Hyatt Regency, New Delhi

Organiser:



Lead Sponsor:



Co-sponsor so far\*:



\*Co-sponsorship slots are still available

# MINING TECHNOLOGY IN INDIA

## Mission

- During the past few months, there have been developments on the policy and other fronts that have led to renewed interest in the mining sector in India. Bans on mining in key states have been lifted, albeit with caps on production. The first round of coal block e-auctions has been conducted successfully, with aggressive bids by companies. On the policy front, the ordinance amending the MMDR Act has paved the way for the introduction of competitive bidding for the allocation of iron ore and other non-coal mines, thereby promoting greater transparency.
- Previously, the mining industry had grappled with legal and policy issues, which made the business environment challenging. The prices of commodities have been volatile, which has impacted the bottom lines of industry players. Further, concerns regarding the sustainability and environmental impact of mining operations also put pressure on mining companies.
- In such an environment, the role of technology assumes utmost importance. Technology plays an important part in the mining value chain, right from exploration to mine planning to extraction of minerals.
- At the survey and exploration stage, seismic and other methods are being utilised to provide an accurate understanding of the geology and estimates of the reserves. Geological modelling is helping in understanding the structure and chemistry of mines. Going a step further, these models can be used further for planning mine production schedules based on mining constraints.
- In opencast mining, there is a need for using bigger size equipment. In most mines in India, dumpers are in the range of 30-85 tonnes, and very few mines have higher capacity dumpers of 120-240 tonnes. On the other hand, globally, the highest capacity of dump trucks being used is around 400 tonnes. The use of surface miners and in-pit crushing and conveying are other technology solutions that can be adopted.
- Underground mining in India is still being done through intermediate technologies like side discharge loaders and haul discharge loaders. There is a need for the adoption of continuous miner technology in order to improve the productivity of underground mining. At present, the various challenges in underground mining have deterred companies from investing in this area.
- Traditional drill and blast methods are also undergoing a transformation. Selective blasting techniques help increase the metal content of the ore, reduce the waste to be processed, save energy, and reduce greenhouse gas emissions.
- Contract mining has emerged as a model by which companies can gain access to the latest technologies and capabilities. The appointment of mine developers and operators (MDOs) is one of the approaches being preferred by the Indian market. MDOs can bring in the latest technologies and mine management practices, and lead to improved efficiency in mining operations.
- Increasingly, a need is being felt for the use of IT and automation in mining operations. These solutions help in the better management of mine operations, reduce pilferage, and improve safety. They also provide better visibility into operations, and hence better control to the management.
- The need for sustainable mining is pushing industry players to come up with innovative solutions. New technology developments in mining are expected to focus on this area.
- **The mission of this conference is to highlight the key technology developments in mining and their impact on the industry. The conference will focus on the experience with the current technology, new and upcoming requirements, and the emerging technology solutions.**

## Target Audience

- The conference is targeted at top and middle-level managers from:
  - Coal producing/mining companies
  - Iron-ore producing/mining companies
  - Other metallic-ore producers
  - Producers/Miners of non-metallic minerals
  - Mineral development corporations
  - Drilling and blasting equipment manufacturers
  - Power producers
  - Steel manufacturers
  - Excavation and loading equipment manufacturers
  - Crushing and grinding equipment manufacturers
  - Policymakers and regulators
  - Modelling solution providers
  - Equipment leasing and finance companies
  - Mining engineers and geologists
  - GIS/Survey technology providers
  - Safety solution providers
  - Inspection agencies
  - Other technology providers, etc.

## Delegate Fee

- The delegate fee is Rs 22,500 for one participant, Rs 37,500 for two, Rs 52,500 for three and Rs 67,500 for four.
- Service tax of 12.36 per cent is applicable on the registration fee.

## AGENDA/STRUCTURE

### KEY TRENDS AND OUTLOOK

- ❖ What is the state of the mining sector in India?
- ❖ What are the recent trends and developments related to technology deployment?
- ❖ What are the key challenges? What is the outlook?

### MDO MODEL

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

### 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?

### IMPACT OF NEW LEGISLATION

- ❖ What will be the impact of new MMDR act on the mining sector?
- ❖ How will it affect deployment of new mining technology?

### PRODUCTIVITY IMPROVEMENT

- ❖ How are advancements in mining technology leading to productivity improvements in mining?
- ❖ What have been the productivity trends in the Indian mining sector?
- ❖ What are the global best practices?

### TRANSPORT FOR MINING

- ❖ What are the new transportation requirements for the mining sector?
- ❖ What are the new technologies/equipment options that are available?
- ❖ What are the key issues and challenges?

### CRUSHING AND CONVEYING

- ❖ What are the specific requirements related to crushing and conveying for the Indian mining sector?
- ❖ What are the most promising and relevant technologies?
- ❖ What has been the experience so far?

### EXCAVATION AND LOADING

- ❖ What are the specific requirements related to excavation and loading for the Indian mining sector?
- ❖ What are the most promising and relevant technologies?
- ❖ What has been the experience so far?

### UNDERGROUND MINING

- ❖ What are the current technologies being used for underground mining in India?
- ❖ What are the key issues and challenges?
- ❖ What are the key global advancements and upcoming technologies?

### USE OF TECHNOLOGY FOR SAFETY IN MINING

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

### SURFACE MINING

- ❖ What are the current technologies being used for surface mining in India?
- ❖ What are the key issues and challenges?
- ❖ What are the key global advancements and upcoming technologies?

### ENVIRONMENTAL ISSUES

- ❖ What are the technologies adopted in India to ensure adherence to environmental norms and standards?
- ❖ What has been the experience? What are the key issues and challenges?
- ❖ What are some of the global best practices?

### 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?

### ROLE OF TECHNOLOGY IN MINE CLOSURE AND REHABILITATION

- ❖ What is the role of technology in mine closure and rehabilitation?
- ❖ What are the statutory requirements for mine closure?
- ❖ What has been the experience so far?

### 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?

### Previous Participants

The organisations that have participated in our previous conferences on "Mining Technology in India" include ACC, Adani, Aditya Birla, Aggreko, Andhra Pradesh Mineral Development Limited, Andritz Separation, Ashok Leyland, Atlas Copco, Australian Trade Commission, Avantha Power, Axis Bank, Balasore Alloys, BASF, BEML, Bharat Forge, BGR Energy, Capstone Geoconsultants, Caterpillar, Castrol, Central Institute of Mining & Fuel Research, CESC, Coal India, CMPDI, CLP, Dextra, Delkor, Deloitte, Doosan, DSP Merrill Lynch, DVC, EDF, EDS Technologies, EMTA Group, ERM Consultants, E&Y, EIL, Elliot Geophysics, ERM Consultants, Essel Mining, Essar Power, ExxonMobil Lubricants, FL Smidth, Fugro Geotech, Geological Survey of India, GMMCO, GMR, GSI, GVK, Hazemag, Hindalco, Hindustan Copper, Hitachi, Hyundai Construction Equipment, ICICI, ICML, IDFC, IMFA, Infotech Enterprises, Indian Explosives, Indu Projects, Inspectorate Griffith, Jai Prakash Associates, Jaypee, Jenissi Management Consultants, Jindal Group, JSPL, JP Associates, Kennametal, KSK Minerals, L&T, Lanco, Maaden, Maccaferri, Magnum Minerals, MECL, Metso, Modular Mining, MoEF, MP State Mining, Mitsubishi, NALCO, Neyveli Lignite, NEERI, Nina Concrete, NMDC, Normet, North East Coal Corporation, NTPC, PWC, PRD Rigs, Queensland Government Australia, Reliance, PricewaterhouseCoopers, PTC Financial, Rashtriya Ispat, Rio Tinto, SAIL, Sasol Mining, Safire Capital, Sandvik, SECL, Shree Cement, SKS Ispat, South Eastern Coalfields, Strategic Decisions Group, Sumitomo, TAM, Tata Power, Tata Steel, Technip, Thermax, Thriveri Earthmovers, ThyssenKrupp Industries, TIL, TMEIC, Utkal Alumina International, Vedanta Group, Volvo, Wipro, 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

Delegates	One	Two	Three	Four
INR	22,500	37,500	52,500	67,500
Service tax (12.36%) INR	2,781	4,635	6,489	8,343
<b>Total INR</b>	<b>25,281</b>	<b>42,135</b>	<b>58,989</b>	<b>75,843</b>
USD (inclusive of service tax)	505	845	1,185	1,525

- Registration will be confirmed on receipt of the 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.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.

## 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 in India**, **Coal in India** and **Coal-based Power Generation in India**.

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