# *A Two Day Master Class On*

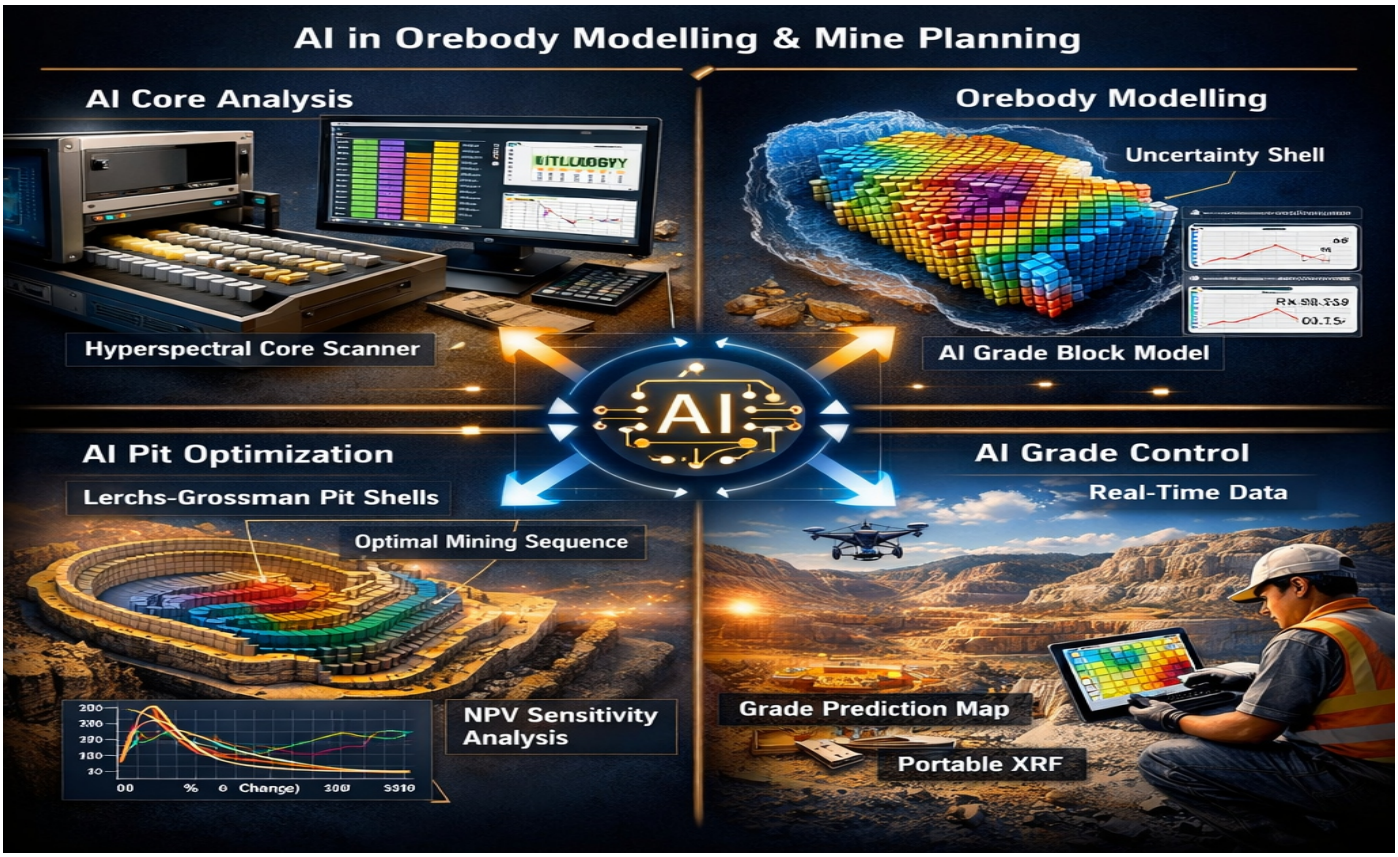
## Engineering with Intelligence: Mine Planning, FMIPCC and Sandwich Conveyors, with AI Applied

## 21st (Mon.) & 22nd (Tues) Dec 2026, Kolkata

**BEING PRESENTED BY**

**Mr. SHYAMAL KUMAR BAG**

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EMPOWERING KNOWLEDGE




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### COURSE OBJECTIVES

The IKC Technical Workshop brings together cutting-edge insights on three game-changing themes:
With conveyors fast becoming the backbone of long-distance bulk transport, the workshop will highlight how to achieve the lowest cost per ton, ensure optimum reliability, and design for safety, durability, and efficiency. Participants will also explore the science of blasting and crushing, essential for optimizing open-cast mining operations, and gain exposure to the transformative potential of IPCC systems—from cost and energy savings to enhanced safety and environmental performance.
Special focus will be given to DSI High Angle Sandwich Belt Conveyor (HAC) technology, with real-world case studies on coal, iron ore, and overburden transport from pit-bottom to surface.
This workshop is designed to deliver practical strategies, proven frameworks, and future-ready solutions—empowering professionals to drive safer, smarter, and more sustainable mining operations.
Mine plans and material handling systems succeed when the logic is sound and the numbers are right. This workshop takes you from the mine plan to FMIPCC and sandwich conveyor transport, then to cost calculations, working HTML tools, case studies and videos. At each step you will see how Artificial Intelligence can speed up the work and still keep an engineer in control. The workshop is led by Shyamal Kumar Bag, who has spent five decades in engineering and so cares about how things are built, not only how they are drawn. His experience spans CMPDI, ThyssenKrupp (Germany), MMD (UK) and Dos Santos (USA). Planning and designing material handling plants and transport systems takes sound knowledge, a logical approach and the ability to calculate. AI can help management reach its goals, and teaching it on these topics has so far been rare.

**Benefits**

- Plan seams, benches, fleet and calendar with a clear method.
- Choose between dumpers, semi-mobile and fully mobile IPCC, and sandwich conveyors, backed by cost and $CO_2$ numbers.
- Calculate capital, operating cost per tonne, NPV and payback, and defend them in front of management.
- Use ready HTML tools and AI prompts that you can take back to your own site.
- Learn from real case studies and videos rather than from theory alone.

### WHO SHOULD ATTEND

**Senior executives, project and planning heads, and mining and mechanical engineers from coal, iron ore, metal, mineral mining, consultants. Also welcome are cement, power, steel and port professionals, and EPC and OEM managers. Consultants and decision-makers who approve transport systems should attend too. No programming skill is needed.**

**Enroll Now!!!**

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**2 DAYS AGENDA**

## BROAD TOPICS:

1. Mine plan with calendar plan based on one World Bank approved project
2. Fully mobile in-pit crushing system (FMIPCC)
3. Sandwich conveyor system
4. Excel calculations
5. HTML software
6. 6. Videos

**SECTORS COVER**

Metal and Mining Sector, Power Sector, MDO's, Steel Sector, Cement Sector, Grain Handling Companies, Construction Companies.

**FOR ANY IN-HOUSE TRAINING**

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**SPEAKERPROFILE**


### Mr. Shyamal Kumar Bag

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Shyamal is a mechanical engineer graduated from NIT, Durgapur in 1970. He has worked in Central Mine Planning and Design Institute, the planning subsidiary under Coal India Ltd for 23 years. He has designedand monitored several coal handling plants including World Bank Projects in Coal India Ltd. Leaving Coal India he has worked with Thyssen Krupp India as General Manager and also as direct consultant of Thyssen Krupp Fôdertechnik, Germany on several IPCC projects in India. He is the key person to introduce surface miner technology in India on behalf of Thyssen Krupp Fôdertechnik, Germany. He has also worked with MMD, UK to introduce mineral sizer in IPCC in India. He has also beenassociated with JMC, UK to introduce LARCODEMS, an advanced coal beneficiation system developed by British Coal. He has been also associated with Quadrant, Germany to introducie a special liner material known as TIVAR for smooth flow of sticky materials in chutes and silos. Presently he is the key technical representative in India of Dos Santos International, USA for DSI GPS High angle Conveyor systems. He is also retainer consultant of DCPL, a leading design and consulting engineering organisation in India, since past 13 years. He has developed Mine Optimisation Calculations for evaluating and comparing system cost/ton; discounted cashflow, payback for transport systems. His articles have been published in journals of MGMI, NACM, MINES METALS FUELS, CMTM and in Linkedin. He had been awarded Engineering Gold Medal for 2016-17 for the concept on application of vertical conveyor for underground mines. He has been faculty in Indian School of Mines, Dhanbad; Indian Institute of Coal Mines, Ranchi and several workshops organized by Private Institutions at Kolkata, Mumbai and at SCCL, Hyderabad.

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