

DAY ONE October 30, 2025 | Thursday

08:30-9:30 hrs Registration

09:30-11:00 hrs Inauguration

Chief Guest: **Shri Vikram Dev Dutt**, Secretary, Ministry of Coal, Govt. of India

Guests of Honour: **Shri Ujjwal Tah**, Director General, Directorate General of Mines Safety
 Shri P M Prasad, Chairman, Coal India Limited & Former President, MGMI

Special Guest: **Hon. Dr Tony Buti**, Minister for Commerce, Tertiary & International Education, W Australia

Organisers: **Shri Jai Prakash Dwivedi**, President MGMI and CMD, WCL
 Shri Uday A Kaole, Chairman, Conference Committee & CMD, MCL
 Shri B Sairam, Chairman, Exhibition Committee & CMD, NCL
 Dr Chandra Shekhar Singh, Secretary, MGMI
 Shri Ranajit Talapatra, Convener, 11th AMC and Immediate Past Secretary, MGMI

11.00 – 11.30 hrs Tea/Coffee**11:30-1:30 hrs Keynote, Special Lectures and Company presentation**

Chairpersons: Prof S P Banerjee, Former Director IIT-ISM & Past President MGMI
 N C Jha, Former Chairman, CIL & Past President MGMI

- 1. Country Status paper – Australia**
- 2. Country Status Paper – Russia**
- 3. Keynote - Prof. Arvind K Mishra, Director, CSIR-CIMFR - Critical Minerals for Energy Transition in India**
- 4. Keynote – Shri M Prasanna Kumar, CMD, NLC – Coal Sector Sustainability: Net Zero is not Coal Zero**
- 5. Company Presentation – GEBR.PFEIFFER (India) Pvt Ltd – Dr Caroline Woywadt, MD Mining**
- 6. Company Presentation – Hindalco - Shri Mirajul Haque, Vice President**

13.30 – 14.30 hrs Lunch**14.30 – 16.00 hrs Technical Session – 1 Venue: Hall 1****Theme: Underground Mining Technology**

1.	Atma Ram Sahu , Satya Prakash & Vivek K Kashi, Aditya College of Technology and Science, Satna	Root Cause Analysis of Underground Mines Accident Using Bayesian Network Model
2.	Arka Jyoti Das , Prabhat K Mandal, Nilabjendu Ghosh, Subhashish Tewari, Rana Bhattacharjee, Ranjan Kumar & Lal Babu Roy, CSIR-CIMFR	Geotechnical Challenges and Suitable Methodology for Highwall Mining of Coal Seams With Less than 3 metre Parting
3.	Sahendra Ram , Birendra K Thakur, Tamilprasanth M, Manoj K Mishra, C.V Krishna Prasad & Ting Ren, NIT Rourkela	Deployment of Continuous Miner- Based Mass Production Technology from Shallow to deeper depths: challenges and Mitigation strategies
4.	Abhishek Kumar Singh & Sahendra Ram , Priyadarshi Onam, Mekla Kanakaiah NIT Rourkela	Influence of Multilayer Weak Bedding on Coal Pillar Strength : Analytical and Numerical Investigations
5.	Tamilprasanth M , Sahendra Ram, Sujit K Mahato, NIT Rourkela	A Study of Influence of Adjacent Goaf for Safe Extraction of Coal of Deeper Depth using Continuous Miner – based mass Production Technology

14.30 – 16.00 hrs Technical Session – 2 Venue: Hall 2**Theme: Mine Productivity, Safety and Monitoring**

1	Amitava Dutta , Kranthi K Mathala & Krishna Kunam, GroundHog Apps Pvt. Ltd	Improve Safety and Productivity of Mine Operations using cutting-edge Technology solutions
2.	Anshuman Agrawal , Minimac Systems Pvt. Limited	Enhancing Efficiency in Mining Machinery using Electrostatic Lube Cleaning Technology
3.	Sujit Kumar , Vivek Kumar', Suharsh Tripathi, Tata Steel Limited	Enhancing Productivity and Cost Efficiency in Mining through Digitalization

4.	Santosh Bhadra , P Danuta Mohan, Siripurapu Surya Teja, Prabina K Sahoo, Indranil Saha, Piyush Srivastava Tata Steel Limited	Mine Monitoring and Analysis using Drone Data : A case Study on Manganese Mines of Tata Steel Limited
5.	Pratibha Sharma Siddhartha Agarwal and R.D Dwivedi, IIT (ISM), Dhanbad & CSIR-CIMFR	Analysis of Major Tunnel Accidents: Identifying Causes, Extracting Key Lessons, and Suggesting Effective Safety Measures
6.	Kartik Varwade , Sanjay K Roy, Ritesh Kumar, Anand Singh, Manish Kumar & Swapan Mahato, CSIR-CIMFR	Review of Open-pit Slope Monitoring Methods and Techniques in Indian Mining
7.	Amit Kumar , Ranjan Kumar & R K Saket CSIR-CIMFR & IIT (BHU)	Study on Reliable Design Requirements of Lithium Ion Batteries in Explosive Hazardous Area

14.30 – 16.00 hrs

Technical Session – 3

Venue: Hall 3

Theme: Drilling and Blasting Technologies

1.	Narayan K Bhagat , Rakesh K Singh, Arvind K Mishra, C. Sawmliana, Vivek K Himanshu, Ranjit K Paswan, Ashish K Vishwakarma, P. Hembram & Baby P Poulouse, CSIR-CIMFR	State-of-the-art Tools and Techniques for Responsible Drilling and Blasting in Open-Pit Mining
2.	Firoj Ali , Sunil K Dhar, Vishwajeet Kumar, Arvind Kumar & C Sawmliana, CSIR-CIMFR .	Study on the Detonation Behaviour and Incendivity property of Permitted Emulsion Explosives
3.	Suman K. Modi , V M S R Murthy, D.G. Krishna & Rajendra Kumar Das, IIT(ISM), Dhanbad & IEST, Shibpur	Assessment of Impact of Different Human and Excavation Activities on Generation of Ground or Structural Vibrations Near Historical Structures with Suggested Control Measures
4.	Murari P Roy, Suraj Kumar , Ranjit K Paswan, R S Yadav, V K Himanshu, Arvind K Mishra, CSIR-CIMFR	Plasma Blasting Technology: A safer alternative to chemical explosives for safe excavation in sensitive area
5.	Ashish K Vishwakarma, Vivek K Himanshu , Saket Kumar & Vikash Kumar, CSIR-CIMFR	Prediction of pull in face blast of underground metalliferous mines using machine learning approaches.
6.	Nabyendu Neogi , Subhajit Halder, Vicky Kalindi, Sujit Kumar, CCL & Tata Steel Ltd.	Study and Improvement in blast fragmentation in open pit mining via Numerical modelling and simulation

14.30 – 16.00 hrs

Technical Session – 4

Venue: Hall 4

Theme: Mine Fire Ventilation and Air conditioning

1.	Dr. Kunal Das & Amal K Debnath , CMPDI Ranchi	Necessity of Air Conditioning in Mass Production Panels in India
2.	Dr Siddhartha Roy , Hemant Agrawal, Devi P Mishra, Anuranjan Kumar, Avula R Yadav, CMPDI, Ranchi	Optimization of mine ventilation using VOD systems for heat stress management: A case study
3.	Jitendra Pandey , S K Ray, A Khalkho, Aditya Kumar, N K Mohalik, D Mishra, Kumari Anjali & J K Pandey, CSIR-CIMFR	Study the state and extent of the fire, its rate of progress in over burden dumping and surrounding mining areas - A case study
4.	Debashish Mishra , S. K. Ray, N K Mohalik, Aditya Kumar, A M Khan & J K Pandey, CSIR-CIMFR	Development of dilution model of diesel particulate matter (DPM) using computational fluid dynamics (CFD) modelling for blind headings using pilot scale study
5.	Kumari Anjali , S K Ray, J K Pandey & J Pandey, CSIR-CIMFR	Dust generation and dust exposure profiling for various category of workers in Hutti gold mines- A case study

16.00 – 16.30 hrs Tea/Coffee

16.30 – 18.00 hrs

Technical Session – 5

Venue: Hall 1

Theme: Advanced Geosciences in Mineral and Hydrocarbon Sectors

1.	Satyam Priyadarshy , Ashwani Dev & Bhabesh C Sarkar, IIT Bombay & Reignite Future LLC, USA ,	Shaping the Future of Geosciences with Exponential Technologies for the Fossil Fuel Industry
2.	Manju Sati , Rajagopal Krishnamurthi, Sakthi S Chinnasamy, IIT Roorkee & IIT Bombay	Significance of deformational features in gold exploration: A case study from Paramanahalli, Karnataka
3.	Satyabrata Nayak & Debadutta Mohanty , Petronas, Kuala Lumpur, Malasia & CSIR-CIMFR	Geological Screening Criteria for Carbon Capture and Storage (CCS) in Oil and Gas Reservoirs

4.	Paromita Biswas , Subrata Mukherjee & Rajesh Mukherjee, Tata Steel Limited	Geochemical, Textural and automated quantitative micro-mineralogical characterization of low-grade iron ore
5.	K Dinda & B Samanta , IIT Kharagpur	Enhancing Recoverable Reserve Estimation in a Porphyry Copper Deposit Using Copula- Based Simulation Models
6.	Arnab Bordoloi , Vinod A Mendhe & Sayeed W Abrar, CSIR-CIMFR	Oil Shale Potential Alternative Energy Resource: Examples from Barail and Disang Formations of Upper Assam Valley
7.	U. Vishwanath , Bangalore	Geological Setting, Minerology, Resources and Methodology of Extraction of India's Richest resource of Lithium – Tungsten- Rubidium – Mullite at Degana, Rajasthan

16.30 – 18.00 hrs

Technical Session – 6

Venue: Hall 2

Theme: Underground Mining Technology

1.	Makkireddi Ramanababu , Sahendra Ram, Kesani Shyam Sundar Reddy, Priyadarshi Onam, NIT Rourkela	Stability analysis of coal pillars and gallery affected by induced stress-driven spalling under varying depths
2.	Prabhat K Mandal , Nilabjendu Ghosh, Arka Jyoti Das, Ranjan Kumar, Rana Bhattacharjee & Subhashish Tewari, CSIR-CIMFR	Side fall hazards in mechanised underground coal mines: Assessment, challenges and remedial approaches
3.	Dongiri Prasanth , Nageswara R Kolikipogu, Sahendra Ram & Gopal C Roy, IEST Shibpur, CSIR-CIMFR & NIT Rourkela	Numerical Investigation of induced Stress, Displacement and Abutment Influence Zone During Goaf Advancement in Mechanised Depillaring
4.	Ayan Giri , Arka Jyoti das, Partha S Paul, Ram Murari, HZL & CSIR-CIMFR	Importance of detailed Geological and Geotechnical domains in underground metal mine stope design
5.	Sameeksha Mishra , Vinod A Mendhe, Asish K Das, Sangam Kumari, CSIR-CIMFR	Evaluation criteria of coal mine methane (CMM) potential in India

16.30 – 18.00 hrs

Technical Session – 7

Venue: Hall 3

Theme: Drilling and Blasting Technologies

1.	Himanshu , S Behera, Tarun Verma, Ashok Jaiswal and Rajesh Rai, IIT BHU	Effect of Blasting on Internal Dragline Dump Slope
2.	Channabassamma N , Akhil Avchar, Sahas V Swamy, Sangamesh N, NIT, Surathkal	Hybrid XG Boost Combined with Bio-Inspired Ant Colony Optimization for Estimating Burden Rock Velocity Using Geotechnical and Blasting Parameters
3.	K Ram Chandar , A K Raina, Balamadeswaran, Vivek Iyer & A G Sangode NIT SURATKHAL & CSIR-CIMFR	Role of delay timing in blast performance: A technical review of electronic detonator uses and a case study
4.	Pijush Pal Roy & Rajib Pal , CSIR-CIMFR & DGMS	Impact Of Surface Blasting On Underground Structures Including Water Bodies
5.	Nitin K Verma , Narpat S Meena, Arvind K Singh & Chandra Sekhar, NTPC	Comparative Study of Traditional and Electronic Detonation method to Mitigate the Challenges of Ground Vibration generated in Opencast Mine During Blasting Operation

16.30 – 18.00 hrs

Technical Session – 8

Venue: Hall 4

Theme: Mine Fire Ventilation and Air conditioning

1.	Santosh K Ray , J Pandey, N K Mohalik, D Mishra, Aditya Kumar, Kumari Anjali & J K. Pandey, CSIR-CIMFR	Assessing status of fire affected sealed panel – A scientific approach
2.	Dr. Vivek Kr Kashi & Atma Ram Sahu ICFAI University, Jharkhand & ACTS, Satna	Investigational Analysis of Spontaneous Combustion Susceptibility
3.	Ashish K Ghosh , Suraj Kumar, Manoj K Sethi, Prabal Boral, Abhishek Mahato CSIR-CIMFR & AcSIR	Propensity Towards Spontaneous Combustion of the Coals Collected from Various Indian Coal Mines
4.	D. C. Panigrahi & Abhinav Saini , PMRC Private Limited	Design of Ventilation System of an Integrated High-Capacity Underground Project After Amalgamating Two Low-Producing Coal Mines.
5.	Manoj Kumar , Kunal Das, Siddhartha Roy & D P Mishra, D P Mishra CMPDIL-Ranchi & IIT (ISM), Dhanbad	Main mechanical ventilator, it's role & importance in mine ventilation

6.	Niroj K Mohalik , Debashish Mishra, Santosh K Ray, Ravi K Roy & J K Pandey, CSIR-CIMFR & Tata Steel Limited	Efficient ventilation system design for deep underground coal mines with multiple coal seams having Goaved out area, sealed off areas and fans
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19.00 onwards – MGMI - ET Mining & Mineral Excellence Awards followed by Dinner

DAY TWO October 31, 2025 | Friday

9.30 – 11.00 hrs

Technical Session – 09

Venue: Hall 1

Theme: Advanced Geosciences in Mineral and Hydrocarbon Sectors

1.	Swagata Paul , Shah U Ahmed, D Mohanty, Satyam Mishra, Monalisa Mallick, Jadavpur University, CSIR-CIMFR & CSIR-NGRI	An evaluation of hydrocarbon generation potential of late Oligocene from Assam- Arakan Basin, North east India
2..	Siddhi Panchal , Kartik Solanki, Madhu Anand, Deepak Rawtani, Sanjiv Tyagi, GMDC & Kachchh University	Geochemical Signatures of Base Metal Mineralization: Indicator Minerals and Pathfinder Elements in the Ambaji Mines
3..	Siddharth Baril , R E Masto, R N Senapati, Hridesh Agarwalla, Manish Kumar, CSIR-CIMFR	Development and Characterization of a Reference Material for High Ash Indian Coal in Accordance with ISO 17034
4.	Koushik Mahanta , Shahid Akhter, Parveen Khattri, Pudi Srinivasa Rao, Tata Steel Limited	A Case Study of an Indirect Exploration Method Using Sonic Well Logging to Estimate the Strength of the Roof Rock Above the Coal Seam
5.	Archana M Nair , Adnan Ahmad & Archana M. Nair, IIT, Guwahati	Mapping Mineral Prospects using Spectral Mixture Analysis: A study from Sittampundi Anorthosite Complex
6.	Raghubeer Rai , Sivaji Lahiri, Mantu K Dangi & Manish A Mamtani, IIT Kharagpur & CSIR-CIMFR	Thermal Damage and Fracture Roughness Evolution in Sandstone from Gondwana Supergroups Bilaspur, Chhattisgarh: A Fast Fourier Transform Based Analysis

9.30 – 11.00 hrs

Technical Session – 10

Venue: Hall 2

Theme: Critical Minerals: Exploration and Policies

1.	Pratush Kar , Sakthi S Chinnasamy, Abir Banerjee, V N Vasudev & Prabhakar Sangurmath, IIT Bombay	Economic Potential of Cobalt from Kalyadi Copper-Cobalt Deposit, Dharwar Craton, India
2.	Abir Banerjee , Sakthi S Chinnasamy, Prabhakar Sangurmath, IIT Bombay	Lithium Exploration in the Amareshwar Region, Dharwar Craton, India
3.	R Ebhin Masto , Siddharth Bari, Hridesh Agrawalla, Manish Kumar & R N Senapati, CSIR-CIMFR	Exploring Coal as a Potential Source of Lithium
4.	P Gopinathan , Amit Karmakar, Om Prakash Kumar, Kanishk Kumar Karan, Prabal Boral, P K Banerjee, Pawan K Gupta & R E Masto, CSIR-CIMFR	Singrauli Coals as Strategic Repositories of Critical Elements for Energy Sustainability
5.	R N Senapati , Kanishk K Karan Siddharth Bari, Hridesh Agarwalla & Manish Kumar, CSIR-CIMFR	Partitioning of critical and rare earth elements in a coal-fired thermal power plant

9.30 – 11.00 hrs

Technical Session – 11

Venue: Hall 3

Theme: Miner's Health and Environment

1	Ali Murtoja Shaikh & Bibhuti B Mandal IIT, Kharagpur	Predicting Musculoskeletal Disorders Among Shuttle Car Operators Using Machine Learning Techniques
2.	Amit Sharma , Bibhuti B Mandal Harsha Vardhan & Ashish Kumar NITK Surathkal & IIT Kharagpur	Occupational Exposure to Whole-Body Vibration Among Women Dumper Operators: Assessing Health Risks in Indian Opencast Mines.
3.	Pranay Ramesh Moon , Amit Kumar Mankar and Radhakanta Koner, IIT (ISM), Dhanbad	Green Technologies in Mining: Practices and Adoption Challenges
4.	Manas Das , Debasish Singh, Amit Kumar Mankar and Radhakanta Koner IIT (ISM), Dhanbad	Geospatial Technologies for Sustainable Environmental Management in Jharia Coalfield
5.	Anand Sharma , B B Mandal, Amar Prakash & Sujit K Mondal, CSIR-CIMFR	Impact of Hand-Arm Vibration on Nerve Conduction Velocity of Jackhammer Operators Working in Underground Metal Mines of India

6.	Pankaj Kumar Dhawan , Azmeera Yugendar, Arvind Kumar Singh, Chandra Shekhar NTPC Ltd.	Fatigue Risk Management by Active Fatigue Monitoring System: A Layer of Defense in Fatigue Mitigation
7.	Jaywardhan Kumar , Vinod A Mendhe, Debadutta Mohanty, CSIR-CIMFR	Decarbonizing the India Coal Mining Sector: Strategic Pathways to Achieve Net Zero Emissions

9.30 – 11.00 hrs

Technical Session – 12

Venue: Hall 4

Theme: Coal Gasification, Coal Bed Methane and Methanol Economy

1	Hitesh Meel , R D Lokhande, VNIT Nagpur	Advancement in coal bed methane technology in India: A Global Comparative Analysis with Strategic Recommendations
2.	Praveen Khattri Koushik Mahanta, Parveen Khattri, Pudi Srinivasa Rao, Tata Steel Limited	Prospect of Coal Bed Methane at Jamadoba Group of Collieries, Jharia Coalfield
3.	Sangam Kumari , Vinod A Mendhe, Alka D Kamble & Sayed W Abrar, CSIR-CIMFR	Shrinkage and Swelling of Coal, Lignite and Shale Matrix due to CO ₂ Injection: Implications for Permeability Correction – A Critical Review
4.	Sayed W Abrar , Vinod A Mendhe & Arnab Bordoloi, CSIR-CIMFR	Significance of Cleat and Fractures in Coal Mining and Coalbed Methane Reservoir: A Critical Review
5.	Shishir Tiwary , Debadutta Mohanty & Pallabi Das, CSIR-CIMFR	Prediction of syngas composition during underground coal gasification in varying steam/oxygen ratio through numerical simulation

11.00 – 11.30 hrs Tea

11.30 – 13.00 hrs

Technical Session – 13

Venue: Hall 1

Theme: Critical Minerals: Exploration and Policies

1.	P Ravindran , Rohit K Sharma, Deepti R Rahangdale, B Vadekar & P K Mahanti, MECL	Identification, Distribution & Modern Era Applications of Critical and Strategic Minerals in Selected Lignite Samples
2.	Suvendu Bose , Partner, Metals and Mining Grant Thornton Bharat LLP	Future of Critical Minerals Sector in India: Problems and Prospects
3.	Medha Sarkar , Saswat Subedit, Sarbartha Mishra, Ambika P Samantaray, Suman K Sit, Maheshwari Mining Pvt. Ltd.	Exploration Strategy Driven by Extraction Amenability and End-Use Perspective: Insights from a Vanadiferous Ore Deposit
4.	Deepak K Sinha , GMDC	Methodologies under new Mineral Policies for Exploration of Critical and Strategic Minerals in India
5.	Pukhraj Sethiya , Soumyabrata Das, ReVal Consulting Pvt. Ltd.	Suitable Policies and Methodologies for Exploration, Extraction and Utilisation of Critical, Strategic and Minor Minerals
6.	Srighakollapu Subbaraidu , Vinod A Mendhe, Alka D Kamble, Sangam Kumari, CSIR-CIMFR	Rare Earth and Trace elements in coal and associated rock formations: Scope and Prospects in India

11.30 – 13.00 hrs

Technical Session – 14

Venue: Hall 2

Theme: Mine Productivity, Safety and Monitoring

1	Bojja Shiva Kumar , NIT Surathkal	Hybrid Bifacial Solar PV Grid- Interconnected Pumping System for Continuous Power Supply in Opencast mines
2.	Ashis Bhattacharjee , Biswajit Samanta & Ashish Kumar, Formerly at IIT Kharagpur	Identification of Personal, Workplace and Organizational Injury Risk Factor in An Aluminium Smelter: A Case study
3.	Joseph A Dos Santos , Shyamal Kumar Bag, DOS Santos International LLC, USA	Sandwich Belt High Angle Conveyors, Mobility in Mining
4.	Deepak Saxena , Naveen Rai, Nandan K. Chaudhary, NCL	Safety Challenges in Opencast Mines - A Fallout of Climate Changes: A Case Study
5.	Bhaskar Bhattacharyya , Avishek Dutta and Kripamoy Sarkar, ECL, IIT-ISM	Stability analysis of a dump slope using limit equilibrium and finite element methods
6.	Kranthi Mathala , Amitava Dutta & Krishna Kunam, GroundHog Apps Pvt. Ltd	Improve Safety and Productivity of Mine Operations using cutting-edge Technology solutions

7.	Hemant Kumar, NLC	Ground water management in Neyveli Lignite mines for safe mining operations
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11.30 – 13.00 hrs

Technical Session – 15

Venue: Hall 3

Theme: ICT in Exploration and Mining

1	S K. Chaulya , P. K. Mandal, Naresh kumar, Vikash Kumar, Preity, S. Mitral, A. Agarwal and V.K. Rawani, CSIR-CIMFR	Digital Fusion Technology for Reliable Communication in Underground Mines
2.	Siddhartha Agarwal , Shambhu Jha, Harika Reddy Gurram', Kaumudi Singh IIT (ISM), Dhanbad & MCL	AI-Based Procurement in the Public Sector Mining Companies: Decision Making for Improving Efficiency
3.	Sahas V Swamy , N Channabassamma, Amrites Senapati, Akhil Avchar, Bijay M Kunar & Karra R Chandar, NIT Surathkal	A Hybrid Random Forest Optimized with the Dolphin Swarm Algorithm for Predicting P-Wave Velocity of Igneous Rocks Using Ball Mill Grinding Characteristics.
4.	Asim Tewari , Ritik Dubey, Rahul K. Singh, Bhabesh C Sarkar IIT Bombay	Deep Kernel Learning Framework for Anisotropic Modelling Of Iron Ore Grade Distributions
5.	Vedant Heda , Ritik Dubey, Asim Tewari, Bhabesh C Sarkar LTIMindtree Mumbai & IIT Bombay	Integrating Domain-Aware Machine Learning for Mineral Prospectivity Modelling

11.30 – 13.00 hrs

Technical Session – 16

Venue: Hall 4

Theme: Coal Gasification, Coal Bed Methane and Methanol Economy

1.	Pavan K Gupta Sudipta Datta, Shiva K Saw, Shweta Kumari, Gajanan Sahu P. Gopinathan Niles D. Dhaigude, Prakash D. Chavan, CSIR-CIMFR	Coal-derived Syngas Utilization for Methanol Synthesis
2	Anjani Kumar & G.P. Karmakar, Essar Oil and Gas Exploration IIT Kharagpur	Hydro Fracturing of Raniganj Coal Bed Methane Production Limited, Raniganj, India Block to Enhance Well Productivity
3.	Ifthisa Raul & Vinod A Mendhe, CSIR-CIMFR	Mapping of Underground Coal Gasification: Selected Examples from Gondwana Coal Basins of India
4.	Manisha Kumari & Vinod A Mendhe, CSIR-CIMFR	Impact of Coal Lithotype, Maceral Composition and Rank on Reactivity in Combustion and Gasification
5.	Sameeksha Mishra , Vinod A Mendhe, Asish K das & Sangam Kumari, CSIR-CIMFR	Evaluation Criteria of Coal Mine Methane Potential in India

13.30 – 14.30 hrs Lunch

14.30 – 16.00 hrs

Technical Session – 17

Venue: Hall 1

Theme: Beneficiation and Waste Management

1.	G V Ramana & Lingaraj Sahu, Ardee Hi-Tech Pvt. Ltd	Low-Cost Sorting – A Disruptive Technology
2.	Vineeth Balakrishnan , Prashant, Dilip Kumbhkar, CSIR CIMFR	Challenges and Opportunities in Pond Ash Disposal in Opencast Mine Dumps
3.	Prashant , V Balakrishnan, S K. Behera, Ran V Singh, Amar Prakash, Rishu K Singh, 159Pinku K Rana and Ashutosh K Roy, CSIR-CIMFR & GEC Palamu	Feasibility of Dumping Pond Ash along with Overburden in a running Mine: A case Study
4.	Priyanka Kumari Ujala , K M P Singh, Rohit Sharma & Deepti Rahangdale, MECL & AcSIR	Using Multiple Thermo- Process for Understanding the Beneficial Recovery of the Ash Forming Elements in Indian Coal at 1.80g/cc Gravity Cut and Their Zero Waste Utilization

14.30 – 16.00 hrs

Technical Session – 18

Venue: Hall 2

Theme: Miner's Health and Environment

1	Md Shahid Anwar & Sunny Soarabh, BCCL	Monitoring of Land Cover and Land-Use Pattern of Bastacola Area through GIS and Multi-Temporal Remote Sensing
2.	Lokhande P , Palliparambil A & B Tiwary, WCL	Navigating the energy transition: A just and sustainable future for western coalfields limited

3.	Pankaj Maurya , R E Masto & Hridesh Agarwalla CSIR-CIMFR	Influence of Tree Species and Reclamation Age on Soil Recovery in Post-Mining Landscapes.
4.	Abinash Chirosantosh Sahoo , Arvind K Singh, ChandraP Shekhar, P P Sahu, Debashish Mishra NTPC Ltd., IIT (ISM) & CSIR- CIMFR	Problems of Dust Pollution in Opencast Coal Mines: Trends, Impact, and Current Mitigation Efforts - A Case Study
5.	V A Selvi, S Ali , A. Yadav, K.K. Karan, R E Masto & A Mukherjee CSIR-CIMFR	Micro Algae: A Potential tool for bio-mining of rare earth elements from mine wastes
6.	Anurag , Vinod A Mendhe & Auvtar K Raina, CSIR-CIMFR	Navigating the Operational Challenges and Environmental Hazard Mitigation due to High Sulphur Content in Coal/Lignite Deposits
7.	Aditya Kumar , D. Mishra, Jitendra Pandey, N K Mohalik, S K Ray, J K Pandey, Asish Kumar, Asim Acharjee & Kaushal Kumar CSIR-CIMFR	Effect of Diesel particulate matter in underground metalliferous mines and evaluation of control measures for healthier workplace environment

14.30 – 16.00 hrs

Technical Session – 19

Venue: Hall 3

Theme: Mine Productivity, Safety and Monitoring

1.	Siddharth Urmaliya & Avinash Kumar NTPC	The Impact of Responsible Mining on Local Employment and Poverty Reduction
2.	Dr. Surajit Dey , Bhagirath Ahirwal, Mousami Mallick, Nanin Kumar, B Ravi Kumar & M.K Verma CSIR- CIMFR	Improvement of safety and productivity of underground mines through condition monitoring of mining components
3.	Surajit Sarkar , Sayed S G, Askari, Manoj Kumar, Manoj Tiwari, Indranil Saha, Sanjay Rajoria & Piyush Srivastava, Tata Steel Limited	Designing Of Drift in Coal Mines to Augment Production and Enhance Safety
4.	Farooq Bhat and Radhakanta Koner, IIT (ISM), Dhanbad	Haul Road Monitoring in Openpit Mining Using UAV Technology: A Technical Case Study
5.	Jitendra K Dixit & Rajib Dutta, CMPDIL, Bilaspur	Alternative Truck Loading System through for Pre-Weigh Hopper for Road Sale
6.	Amit Kumar Mankar and Radhakanta Koner IIT (ISM)	Advance Geoscience Techniques for Critical zone Identification and Stability Assessment of Ine Waste Dump Slopes
7.	Praveen Mishra , Pankaj Kumar LSI Engineering and Consultants Ltd	Implementing Green HRM in Indian Coal Mining Through Industry 4.0 .

14.30 – 16.00 hrs

Technical Session – 20

Venue: Hall 4

Theme: ICT in Exploration and Mining

1.	Anup K Prasad , Sameeksha Mishra, Arya Vinod, Anubhav Shukla, Shailayee Mukherjee, Bitan Purkait, Atul K Varma, and Bhabesh C Sarkar, IIT (ISM) & IIT Bombay	A Novel Machine Learning Approach for Rapid Estimation of Coal Quality Parameters Using Mid Infrared FTIR Spectroscopy.
2.	Natsuo Okada , Kaito Takizawa, Shion Wakae, Narihiro Owada, Brian B Sinaice, George Mathews, Yoko Ohtomo and Youhei Kawamura, Hokkaido University, Japan	Performance Evaluation of Classical and Deep Learning Models in Hyperspectral Imaging: A Dataset-Centric Approach
3.	Shankhajit Mitra , Ashish soni, S. K. Chaulya, Abhishek Mitra, CSIR-CIMFR	AI and cyber security in Indian mining: A next generation approach to digital protection
4.	Chetan Shankar Chide , R Singh, V K Yadav, WCL	Driving digital transformation in mining: WCL's integrated command and control centre (ICCC) and industry 4.0 IOT initiatives.

16.00 – 16.15 hrs Break

16.15-17.00 hrs

Panel Discussion: Responsible Mining – The Road Ahead

Moderated by: **Dr Amalendu Sinha**, Chairman, Technical Committee & Former Director, CSIR-CIMFR

Panellists: **Mr Satish Jha**, CMD, ECL **Mr Sanjiv Kr Singh**, CMD, HCL
Mr B P Singh, CMD, NALCO **Mr I D Narayan**, CMD, MECL
Mr D B Sundara Ramam, VP, Corporate Affairs, Tata Steel

17.00 – 18.00

Valedictory Session

Chief Guest: Shri Asit Saha, Director General, Geological Survey of India

Guest of Honour: Mr Amarendu Prakash, Chairman, SAIL

Special Guests: Mr Nilendu Kr Singh, CMD, CCL
Mr Harish Duhan, CMD, SECL

Organisers: Mr Jai Prakash Dwivedi, President MGMI and CMD, WCL
Dr Amalendu Sinha, Chairman, Technical Committee & Former Director, CSIR-CIMFR
Dr Chandra Shekhar Singh, Secretary, MGMI
Mr Ranajit Talapatra, Convener, 11th AMC and Immediate Past Secretary, MGMI
Mr Prasanta Roy, Convener, 11th IME and Past Secretary, MGMI

18.00 – 18.30

High Tea

19.00 onwards

Cultural Programme by Vidushi Shubha Mudgal followed by Dinner.

11th Asian Mining Congress concludes