

Springer Proceedings in Earth and Environmental Sciences

Amalendu Sinha · Bhabesh Chandra Sarkar · Prabhat Kumar Mandal *Editors*

Innovative and Responsible Mining for Inclusive Growth

Proceedings, 11th Asian Mining Congress, Kolkata, West Bengal, India, October 30–31, 2025

Combating the menace of climate change, implementing energy transition and living up to strong societal expectations are serious global concerns. Strangely, the mining activities remain enigmatic to society, though mining footprints are omnipresent in most of our household items as well as in many technological breakthroughs. Thus, the Mining Sector in particular and the Mineral Sector at large have to be more responsible and responsive to make their contribution to nation-building more visible. The stakeholders need to brainstorm to work out the best practices that would recognise them as responsible entrepreneurs.

In view of these, The Mining, Geological and Metallurgical Institute of India (MGMI), established way back on 16th January 1906, and one of the oldest institutions of this kind in the world, is organizing the 11th Asian Mining Congress (AMC) during October 30–31, 2025 in Kolkata, India with the Theme, “Innovative and Responsible Mining for Inclusive Growth”. The AMC and International Mining Exhibition (IME), held concurrently, are flagship international events organized by MGMI biennially since its centenary year. This series have provided ample opportunities to all stakeholders, including practising engineers, machinery manufacturers, planners, regulators, academicians, scientists and policy makers, for sharing their knowledge, experience and expertise and exhibit their products that can benefit the mining and mineral industries not only in the Asian region but also globally.

The proceedings of the 11th AMC comprise insightful articles authored by renowned experts and thought leaders from various disciplines. These contributions highlight recent developments and innovations in the mining sector, aimed at promoting sustainable practices, enhancing technological cooperation, and fostering inclusive growth. This compilation serves as a valuable resource for driving progress in mineral production while exploring new avenues for responsible and sustainable business practices, benefitting both the Asian and global mining communities.

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