

# CENTRAL MINING RESEARCH STATION

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- Chief Executive Officer:** Mr. B. Dhar
- Year of Establishment:** 1955
- Ownership:** Council of Scientific & Industrial Research, Government of India
- Function:** Central Mining Research Station (CMRS), a laboratory of the Council of Scientific and Industrial Research, Government of India, carries out R&D activities in the fields of Rock Mechanics and Mining Methods, Mine Environment and Safety as well as Mine Machinery, Equipment and Instruments to make mining safe, productive and economical as well as reduce environmental pollution due to mining and health hazards to miners.
- R&D Facilities:**
- Geomechanics and Mining Methods
  - Stability analysis and design of coal and metal mines
  - Design and development of mine support system
  - Mine subsidence prediction, control and analysis
  - Numerical modelling and computer programming
  - Physical modelling
  - Assessment of cavability and estimation of support capacity of longwall faces
  - Slope stability analysis and design in rocks and waste spoils
  - Mine fill practices (stowing for stabilization and optimum exploitation)
  - Stabilization and rehabilitation of old mine workings
  - Design, development and monitoring of blasting operations, vibration monitoring and control
  - Biodegasification and bio-leaching
  - Stability analysis, design and development of tunnels, dams and underground caverns.
  - Mine Environment and Safety
  - Fire hazard evaluation and control
  - Assessment, design and development of pollution control measures in mines and mining areas
  - Reclamation and management of mine waste dumps
  - Sustainable development of fragile mining areas
  - Ventilation network planning and design
  - Mining Equipment and Machinery
  - Design and development of mine safety equipment
  - Services Offered
  - Testing/Analysis/Evaluation/Standardization including calibration of: