

Mining Equipment, Explosives, Coal/Rock Samples, Mine Environment and Ventilation Instruments, Flameproof Equipment, Safety Equipment, Materials

Services to Industries:

Contract Research: Contract research comprises all R&D projects, which fall within the purview of approved research areas of CMRS undertaken through specific contractual arrangement agreed upon for the purpose. Contract research covers:

(i) Sponsored Projects, (ii) Collaborative Projects, and (iii) Grant-in-Aid Projects in areas of CMRS specialisation listed above.

Consultancy Services: include scientific, technical, engineering or other professional advice/assistance based on available knowledge/expertise of CMRS. These comprise:

- (i) testing and analysis (including certification and calibration),
- (ii) training,
- (iii) technical assistance of an advisory nature,
- (iv) fabrication/production of special products,
- (v) repair and maintenance, and
- (vi) supply of information/data base.

Major Programmes (1992-97)

(i) Development of Mining Technology for the Exploitation of Complex Coal Deposits; (ii) Development of Total packages for Optimal Exploitation of Mineral Deposits using Improved Technologies; (iii) Numerical Modelling of Rock Excavation and Computer Application in Mine Planning and Designing from Stability and Safety Point of View; and (iv) Development of Underground Space Technology.

Minor Programmes

- (i) Prediction of Ground Stability by Acoustic Emission Measurement,
- (ii) Studies on the Parameters contributing to Air Pollution in Mines,
- (iii) Feasibility of Use of Aluminium Alloy for Support/Equipment in Mines,
- (iv) Ergonomics in Mining Operations,
- (v) Corrosion in Mines,
- (vi) Design of Rock Bolting Equipment,
- (vii) Design of Chock for Bord and Pillar Workings,
- (viii) Evaluation and Testing of Powered Supports,
- (ix) Physical Modelling of Coal Mining Systems,
- (x) Development of Communication Systems for Mines, Methods for Ventilation and Safety in Mines, Mining Machinery and Equipment as well as Methods for Reclamation of Mined Areas

New Introduction/creation

Testing Cell (TC): CMRS has recently reorganised its testing facility procedure and created a "CMRS Testing Cell" to provide a 'Single Window Assistance' to the mining and allied industries and manufacturers of mining equipment/machinery in all its matters related to testing and calibration.