

# Review of Elsevier Publication – “Management of coking coal resources” by Dr. Dilip Kumar and Mr. Deepak Kumar

The book is a product of very long effective engineering consultancy services rendered by Dr. Dilip Kumar in Indian Coal Industry and topped up with business management inputs rendered by Mr. Deepak Kumar.

The book comprises seven chapters including an introductory chapter and a concluding chapter.

The Introduction refers to the problems associated with Indian coking coal resources and the basic objectives of the book. The timing of the book is related to the global liberalized economic scenario and the multidisciplinary nature of management of economic resources related to core industrial activity.

*Chapter 2* presents the latest developments in Iron & Steel Industry particularly integrated steel plants where coking coal is an important input.

*Chapter 3* presents an elaborate Evaluation of Coking Coal Resources and Reserves on the basis of prevailing international systems and standards. The important aspects of this chapter are measurement of coking propensity, Indian coalfields and coal classifications, geological exploration and estimation of minable reserves.

*Chapter 4* presents step by step implementation of modern technology in coal mining activities. The effect of mechanisation and automation on the overall productivity and economics have been analysed using modern analytics with benchmarking. The factors on safety and quality have also been analysed in detail. An appendix to this chapter presents the various new dimensions on longwall mining, training, outsourcing and alternative mining methods.

*Chapter 5* presents the various modern methods on

transportation of mined coking coal to consuming and utilization point.

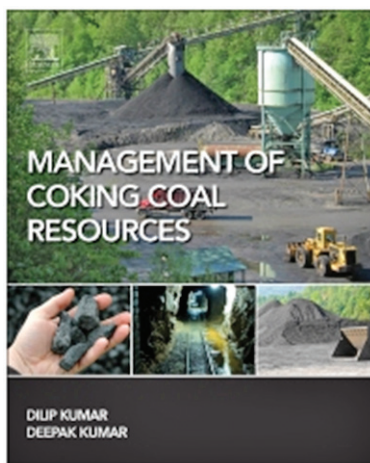
*Chapter 6* presents development of a sustainable mining environment keeping in view societal, and economic factors and overall governance factors including environmental factors. One important aspect of this section is mine closure.

*Chapter 7* presents overall concluding remarks covering overall management framework and zero waste system.

The important aspects of presentation of the book are pictorial illustrations and lucid description of theory and practice amalgam in an intelligible manner. The economics of various parameters have been explained with interesting graphs. The technological development over time and its impact of sustainable mining methodology have been

presented in a systematic manner. All chapters are backed by important reference documents.

I am sure the book will be very useful for students of mining and metallurgical engineering and also for engineers engaged in mineral industry.



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