

ME 31003 **Underground Metal Mining Methods**

Lecture Notes

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Chapter 1

Salient features of Indian Mining Industry

1. The major contributors of mineral in the country are:

Table1. Share of key mining states on India's mineral resources (*Ministry of Mines, Government of India; Ministry of Coal, Government of India, Indian Bureau of Mines, Centre for Monitoring Indian Economy -2006a*)

State	Coal%	Iron ore%	Bauxite%	Manganese %	Lead-Zinc %	Chromite %
Jharkhand	29%	14%	-	-	-	-
Orissa	24	17	51	35	-	98
Chhattisgarh	16	10	-	-	-	-
MP	18	-	-	10	-	-
AP (old)	7	7	21	-	1	-
Rajasthan	-	-	-	-	90	-
Karnataka	-	41	-	29	-	1
Total	84	89	72	74	91	99

2. India produces about 87 minerals that include 4 fuel minerals, 3 atomic minerals, 10 metallic minerals, 47 non-metallic minerals and 23 minor minerals (including building & other materials). India occupies a dominant position in the production of many minerals across the globe.
3. There are close to 3000 mines in India. As per the records of 2010-11, of 2928 mines, 573 were fuel mines, 687 were mines for metals, and 1668 mines for extraction of non-metallic minerals. Of the total number of about 90 minerals, the three key minerals are coal, limestone and iron ore. There are 560 Coal mines (19% of total number), 553 limestone mines (19% of total number) and 316 iron ore mines (11 % of total number) bauxite (189), manganese (141), dolomite (116) and Steatite (113). **India ranks 3rd in coal production, 3rd in limestone production and 4th in iron ore production, in the world as of 2010.**

Table 2 India's Production Rank across Key Minerals – 2010 (*Ministry of Mines, Government of India; Ministry of Coal, Government of India, Indian Bureau of Mines, Centre for Monitoring Indian Economy -2006a*)

Mineral	Application	Total Production ('000 tonnes)	India's global rank in production
Coal	Power, steel, cement	5,37,000	3 rd
Limestone	Cement, iron & steel, chemical	2,40,000	3 rd
Iron ore	Iron and steel	2,60,000	4 th
Bauxite	Transport vehicles, packaging, construction materials	18,000	4 th
Barite	Oil and gas, paints, plastics	1,000	2 nd

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