

2007 Minerals Yearbook

INDIA [ADVANCE RELEASE]

THE MINERAL INDUSTRY OF INDIA

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The country's industrial output surged as a result of a rapid expansion in manufacturing in 2007 and then leveled off owing to higher interest rates. Mining showed a positive growth of 4.4%. India produced more than 80 different mineral commodities, and was among the world's leading producers of bauxite, coal, mica, and iron ore. Its large reserves of barite, bauxite, chromite, coal, iron ore, and manganese ore placed India among the top 10 countries in the world in terms of the economic importance of its mineral reserves and resources (Indian Bureau of Mines, 2007).

Minerals in the National Economy

Owing to the country's healthy economic growth, the demand for metals and minerals in India and in other developing countries has led to a steady growth in the country's mineral industry and been a vital part of the industrial production. Greater investment in exploration and mineral production also increased the productivity and efficiency of the mining and processing operations. The value of mineral output was \$25.3 billion in fiscal year 2007-08 and accounted for 3% of the gross domestic product. The values of mineral imports and exports were \$77.5 billion and \$20.6 billion, respectively, in 2006-07 and accounted for 34% and 14% of the values of total imports and exports, respectively (Ministry of Mines, 2007).

Government Policies and Programs

The Mines and Minerals Regulatory Authority of India was created to oversee the production and use of strategic minerals, which were designated by the Government to be ilmenite, monazite, and rutile sands that contained thorium and titanium. Titanium was a space-age mineral, and thorium, which was the mainstay of India's nuclear program, had the potential to make the nation energy independent. Therefore, instead of using placer deposit mineral sands to produce titanium oxide at Tata Iron and Steel Company Ltd.'s plants at Sattankulan in the State of Tamil Nadu and at Chattarpur in the State of Orissa, plans were in place to build plants to produce thorium and titanium metals instead and reserve them for India's strategic development imperatives (Kalyanaraman, 2007).

In India, only \$2 million was spent annually on prospecting and exploring for minerals and metals (Wilburn, 2008). The Geological Survey of India and Mineral Exploration Corp. limited their exploration activities to bulk minerals, such as bauxite and iron ore. Foreign investment could affect the scope of exploration and the commodity types being sought. The Government approved the floating of a \$500 million high-risk fund (with Canadian participation) to support exploration in a 1.82-million-square-kilometer area in India.

Production

Mineral fuels accounted for 69% of the total value of mineral production in India in fiscal 2007-08; metals, 20%; and industrial minerals, 11%. The total value of mineral output increased by 9% compared with that of fiscal year 2006-07 (Ministry of Mines, 2007). In terms of world production, India ranked first in mica sheet output; second in barite; third in chromite; fourth in iron ore, pyrophyllite, and talc; and sixth in bauxite. In 2007, production of smelted copper, cobalt metal, and chromite decreased by 18%, 17%, and 8%, respectively, compared with that of 2006. Output of bauxite, mined copper, gold, direct-reduction iron, and silver each showed an increase of more than 20% owing to extensive exploitation of base metals (table 1).

Structure of the Mineral Industry

The Government's grip on the mining sector remained strong. The public sector continued to control 83% of India's ore and mineral output, by value, which, in 2007, included 95% of coal output and all mined copper output. Greater autonomy was given to Hindustan Copper Ltd. (HCL), Mineral Exploration Corp. Ltd. (MECL), and National Aluminium Co. Ltd. to enhance efficiency and increase productivity. The publicsector companies are in control of the mining and processing of aluminum, copper, and gold. MECL is responsible for mineral exploration. In addition, the Government holds a 49% equity interest in Bharat Aluminium Co. Ltd. and a 29.54% equity interest in Hindustan Zinc Ltd. (HZL). Coal India Ltd., which is under the Ministry of Coal, has seven coal producing subsidiaries, as well as Neyveli Lignite Corp. Ltd. and Singareni Collieries Co. Ltd. (a joint undertaking with the State government of Andhra Pradesh) (table 2).

Mineral Trade

India exported, in descending order of value, diamond (mostly cut), iron ore, granite, alumina, precious and semiprecious stones, and chromite in fiscal year 2006-07. The country imported, in descending order of value, crude petroleum, diamond (uncut), and other commodities, including coal, coke, copper ores and concentrates, iron ore, phosphate rock, and sulfur.

Commodity Review

Metals

Aluminum.—Hindalco Industries Ltd. agreed to purchase Alcan Inc. of Canada's 45% stake in Utkal Alumina International Ltd. for an undisclosed amount. The Utkal joint venture involved the development of a new bauxite mine and an alumina refinery with a capacity of 1.5 million metric tons per year (Mt/yr) in the State of Orissa. Hindalco Industries initially acquired a 20% stake in Utkal Alumina when it bought out Indian Aluminum Co. Ltd. (Indal) in 2000 and later increased its stake to 55% (Financial Express, The, 2007a).

AluChem Inc. of the United States and Gujarat Mineral Development Corp. Ltd. (GMDC) signed a memorandum of understanding to build a \$400 million 1-Mt/yr specialty alumina plant in the Kutch region. Production would include activated, calcined, hydrated, tabular, and thermally active aluminas. The plant, which was to be fueled by locally sourced lignite, would begin commercial production in 2010. GMDC, which would own 26% of the joint venture, would conduct the exploration work and supply AluChem with medium-grade bauxite feedstock (Industrial Minerals, 2007a).

Copper.—HCL planned to expand its mines and explore for new copper deposits in the States of Jharkhand, Madhya Pradesh, and Rajasthan with the goal of producing 7.93 Mt/yr of ore by 2011. The company controlled three-quarters of India's established copper deposits, which hosted 370 million metric tons (Mt). India had a smelting capacity of 900,000 metric tons per year (t/yr) but produced only 734,000 t/yr of copper. HCL had a small capacity of 65,000 t/yr at its smelters at Khetri in Rajasthan and at Ghatsila in Jharkhand. The company planned to become self-sufficient in copper concentrate production and to generate surplus concentrate by 2012. HCL applied to the Jharkhand State government for the award of the lease to the 80-Mt Chapri Sideshwar deposit. HCL also wanted to develop the Banwas Mine in Rajasthan and planned to invest \$293 million to change its Malanjkhand open pit mine in Madhya Pradesh, which produced 2 Mt/yr of ore, into an underground mine that would produce 4 Mt/yr of ore (Metal Bulletin, 2007a).

Sterlite Industries Ltd., which was the country's other copper producer, owned a captive Konkola copper mine in Zambia and a copper mine in Australia. It also operated a copper smelter with a capacity of 400,000 t/yr at Tuticorin in the State of Tamil Nadu and a copper refinery with a capacity of 300,000 t/yr at Silvassa in the State of Gujarat (Vedanta Resources plc, 2007).

HCL decided to resume mining at the Surda Mine in Jharkhand in alliance with India Resources Ltd. of Australia with an initial production of 4,500 t/yr of copper concentrate. The mine had been closed in January 2003. First production and plant recommissioning were scheduled for November 2007 (India Resources Ltd., 2007).

Gold.—Adi Gold Mining Pvt. Ltd., which was a subsidiary of Pebble Creek Mining Ltd. of Canada, held 100% of the mineral rights to the Askot deposit in the State of Uttaranchal. The copper-gold-silver-lead-zinc deposit was drilled by Pebble Creek in 2007 to verify the limits of the mineral occurrence. Preliminary study indicated a mining operation that would require little capital and have low operating costs. The economic vitality of the Askot deposit depended on metal prices. Under Indian law, profits from mining operations could be repatriated (Pebble Creek Mining Ltd., 2007a).

Pebble Creek's drilling program identified Gadarwara's large magnetic anomaly as being caused by a banded iron formation (BIF). The Gadarwara high magnetic anomaly was 1,800 meters (m) wide and 20 kilometers (km) long. The presence of sulfides and sulfates in the BIF system was considered an important indicator for gold mineralization. The BIF assemblage belonged to the Mahakoshal Formation of Archean to early Proterozoic age. In the company's Banda gold prospect in the State of Uttar Pradesh, De Beers India Pvt. Ltd. withdrew from the technical consulting services and option agreement of 2006 with Pebble Creek. Pebble Creek had no immediate plans to perform additional work at Banda (Pebble Creek Mining Ltd., 2007b).

Indo Gold Ltd. of Australia reported results from soil, stream sediment, and rock chip sampling at the Jagpura joint-venture project with Metal Mining Pvt. Ltd. in the State of Rajasthan. Additional soil sampling at Bhukia increased the extent of geochemical anomalies to the north, east, and west. The regional stream sediment and rock chip sampling continued to define gold anomalies along a strike of 60 km where significant gold and (or) copper mineralization was identified. Previous drilling data from the Geological Survey of India and Hindustan Zinc Ltd. showed gold mineralization within the Bhukia soil anomalies (Indo Gold Ltd., 2007).

Iron and Steel.—India's iron ore exports were expected to increase in 2007 despite an export tax of \$6.78 per metric ton imposed by the Government in February. The increase in exports was owing to the sustained Chinese demand for Indian iron ore (64% iron content). China imported a combined total of 350 Mt/yr of iron ore from Australia, Brazil, and India. In 2006, India's total iron ore exports were 90 Mt, of which 74 Mt went to China. For China, iron ore sent by freight from India cost \$18 per metric ton less than the iron ore that was shipped from Brazil. Meanwhile, the Indian steel industry demanded a complete phaseout of iron ore exports by fiscal year 2011-12. All major steel companies were expanding and, as a result, the country's iron ore reserves could be exhausted in 20 years (Financial Express, The, 2007b).

The Chhattisgarh State government withdrew National Mineral Development Corp.'s (NMDC's) right to a part (100 Mt) of the Bailadila iron ore reserves, which the government wanted to grant to Essar Steel Co. Ltd. instead. Essar Steel planned to build a 3.2-Mt/yr steel plant in Chhattisgarh at a cost of \$1.33 billion. NMDC planned to challenge the government's decision (Metal Bulletin, 2007d).

Vedanta Resources plc acquired 100% of Finsider International Ltd. of the United Kingdom, which owned a 51% stake in Sesa Goa Ltd., from Mitsui & Co. Ltd. of Japan for \$981 million. Sesa Goa was a low-cost iron ore miner in the States of Goa, Karnataka, and Orissa; the company exported iron ore to China, Europe, and Japan. Sesa Goa's iron ore reserves were estimated to be 207 Mt, which could support 20 years of mine production. India's huge iron ore reserves were ranked third in the world. Sesa Goa's metallurgical coke and pig iron plants each had a capacity of 250,000 t/yr. Vedanta Resources planned to make an open offer to acquire an additional 20% of Sesa Goa. The total cash value for 71% of Sesa Goa was \$1.37 billion. Vedanta Resources planned to finance the acquisition with a \$1.1 billion of bank loan and cash resources for the remainder (London Stock Exchange, 2007).

The State of Maharashtra had reserves of 180 Mt of highgrade iron ore with an iron content of 64% to 66% in the Districts of Chandrapur and Gadhchiroli. Of this amount, 80 Mt had been allocated for Lloyds Steel Industries Ltd., which owned a 500,000-t/yr steel plant in the Wardha District, and 30 Mt had been allocated for Ispat Industries, which owned a 3-Mt/yr steel plant at Dolvi. Sindhudurg Mining Corp. planned to invest \$80 million for the development of a mine and the installation of beneficiation plants at Sindhudurg. In the Redi District, Tata Metallics took over the 400,000-t/yr Usha Ispat pig iron plant. The State had 12 direct-reduced iron producers with a combined total production capacity of 1.5 Mt/yr (Metal Bulletin, 2007b).

India's s top steelmaker, by output, was Tata Steel Co. Ltd., which also was the world's lowest-cost producer, followed by Steel Authority of India (SAIL) and JSW Steel. Tata Steel and SAIL had their own iron ore and coal mines. JSW Steel produced 7 Mt/yr of steel and planned to start a 10-Mt/yr-capacity steel plant in the State of West Bengal by 2009. A similarly sized steel plant was to begin operations in the State of Jharkhand by 2012 (Agarwal, 2007).

Tata Steel outbid Companhia Siderúrgica Nacional of Brazil to take over Corus Group, which was a European steelmaker, for \$11.3 billion. The Corus board of directors decided to recommend the Tata Steel bid to its shareholders. The deal would represent the largest acquisition by an Indian company to date. After the acquisition, Tata Steel would become the world's fifth ranked steelmaker (Washington Post, The, 2007b).

SAIL's \$9 billion corporate plan for 2012 called for the 2.5-Mt/yr expansion of the Iisco steel plant in the State of West Bengal, the construction of a meltshop and a cold-rolling mill for Salem Steel in the State of Tamil Nadu, and the expansion of SAIL's Bokaro steel plant in Jharkhand to 7.5 Mt/yr from 4.6 Mt/yr. The plan would increase the company's crude steel output to 22.5 Mt/yr. The company tried to regain control of the Chiria iron ore deposit in Jharkhand, which hosted 2,000 Mt of reserves. The company also owned another set of deposits at Gua. SAIL needed the Chiria deposit to implement its growth plan, which included the construction of a 12-Mt/yr steel plant in Jharkhand (Metal Bulletin, 2007c).

Jindal Stainless Ltd. was India's leading manufacturer of stainless steel followed by SAIL and other producers, such as Shah Alloys and Sunflag Iron and Steel Ltd. The country produced 17 Mt/yr of stainless steel; about 1.2 Mt/yr of the stainless steel was used to make utensils, and the rest was exported. India imported 36,000 t/yr of nickel mainly from Australia, Canada, and Russia. The stainless steel industry asked the Government to cut the import duty to zero from 5% in line with the import duties in Japan and the Republic of Korea (Financial Express, The, 2007c).

Ferro Alloys Corp. Ltd. planned to build a 500,000-t/yr stainless steel plant and a powerplant in Orissa with an investment of \$635 million. Power generated would be used to run the stainless steel complex. Ferro Alloys Corp. was part of Facor Group, which was India's leading producer of specialty steel and ferrochrome products (Platts, 2007).

Visa Steel Ltd. established a joint-venture company (Visa Bao Ltd.) with Baosteel Trading Co. of China and Visa Comtrade AG of Switzerland to set up a 100,000-t/yr ferrochrome plant in the Jajpur District in the State of Orissa. The cost of the project would be \$63 million, which would be financed through a 65/35 debt-equity mix. Visa Steel would hold a 51% stake; Baosteel, 35%; and Visa Comtrade, 14%. The plant would ensure a stable supply of ferrochrome for Baosteel's stainless plant in China (Visa Steel Ltd., 2007).

Lead and Zinc.—Exide Industries Ltd. completed its acquisition of Tandon Metals Ltd. for \$5.6 million. Exide Industries planned to invest an additional \$2.8 million to increase the lead smelting production of Tandon Metals at Pune, Maharashtra, to 10,000 t/yr in the first part of 2009. Smelting capacity could be further expanded to 20,000 t/yr in the next 2 to 3 years. Present output was between 700 and 800 t/yr owing to a lack of raw materials and fewer customer orders. The expansion project would reduce Exide Industries' dependence on high-cost imported lead (Business Standard, 2007).

HZL was India's only integrated zinc company. The company operated the Rampura Agucha Mine, which had low mining costs and high-grade ore, and the Chanderiya smelter, which used Ausmelt technology. Both the mine and the smelter are located in the State of Rajasthan. The mine was estimated to have reserves of 53.4 Mt at grades of 12.8% zinc and 2% lead. The smelting capacity for refined lead was 85,000 t/yr and, following a planned expansion of the mine by 2010, that for refined zinc would be 1 Mt/yr. The company had two primary lead smelters at Chanderiya in Rajasthan with capacities of 50,000 t/yr and 35,000 t/yr, respectively. HZL planned to build a 50,000-t/yr secondary lead smelter at a cost of \$33.9 million (Vedanta Resources plc, 2007).

Titanium.—The State government of Andhra Pradesh signed memorandums of understanding with Bothli Trades AG of Switzerland, Stork Handelsges m.b.H. of Austria, and W Minerals to explore for beach sand and extract ilmenite deposits along its coast. About 19,000 hectares were allotted among the three companies (Industrial Minerals, 2007b).

Industrial Minerals

Cement.—OCL India Ltd. (formerly Orissa Cement Ltd.), which was a public-sector cement company based in the State of Orissa, had a production capacity of 1.85 Mt/yr. A \$170 million project (which would be financed in part by a \$50 million loan from the International Finance Corp.) included the addition of a 1.32-Mt/yr clinker production section at an estimated cost of \$109 million at Rajgangpur and a 900,000-t/yr grinding unit at an estimated cost of \$61 million at a greenfield location. The company would finance the project by raising funds through rights issue and long-term debt (International Finance Corp., 2007b).

In 2007, Humboldt Wedag India and KHD Humboldt Wedag of Germany won contracts for engineering and supply of the following: a new clinker grinding plant with a capacity of 175 metric tons per hour (t/h) to Grasim Industries Ltd.'s Aligarh Cement Grinding Unit in the State of Uttar Pradesh; a new clinker grinding unit with a capacity of 160 t/h to Orient Cement's Jalgaon cement plant in the Jalgaon District in the State of Maharashtra; and a new raw material grinding system with a capacity of 300 t/h to Orient Cement's Devapur cement plant in the Adilabad District in the State of Andhra Pradesh (KHD Humboldt Wedag GmbH, 2007). **Diamond.**—Although De Beers had discovered 38 kimberlites, there were no diamond mining activities in India. The company's exploration for diamond was conducted by De Beers India, which would also be responsible for diamond mining once a viable kimberlite was identified. The company was actively exploring in the States of Karnataka, Madhya Pradesh, Orissa, and Uttar Pradesh. De Beers supplied rough diamond from South Africa through Hindustan Diamond Co. and marketed diamond jewelry through DTC Marketing India Pvt. Ltd. Hindustan Diamond, which was a 50-50 partnership between De Beers and the Government, supplied rough diamond to 238 small and medium manufacturers and exporters of polished diamond in India. DTC Marketing India's functions were marketing and consumer confidence activities (De Beers, 2007).

India Resources Ltd. of Australia, which had a commercial alliance with HCL, received five prospecting licenses in the State of Andhra Pradesh in an area that was part of the eastern Dharwar Archaean craton of South India. Dwyka Diamonds of Australia had identified and mapped two kimberlite pipes through previous drilling in the area. The area was highly prospective for diamond-associated indicator minerals. An exploration program was expected to begin in early 2008. India Resources also was exploring potential diamond prospects at Bhandara in Orissa and at Bundelkhand in Madhya Pradesh and had discovered kimberlitic indicators in stream sediment sampling in the Bhandara prospect (Antwerp Facets News Service, 2007).

Lime.—Ispat Industries Ltd. entrusted Maerz Ofenbau AG of Switzerland to supply equipment, materials, and engineering services for the installation of a 300-metric-ton-per-day (t/d) coal dust-fired lime shaft-typed kiln. The kiln would be equipped with 22 burner lances in each shaft to feed coal dust into the burning zone. Limestone would be calcined in the kiln to produce 300 t/d of quicklime (World Cement, 2007).

Mineral Fuels and Related Materials

Coal.—Indian coal was generally of low quality with high ash and low calorific value. Hard coal (anthracite and bituminous) accounted for 80% of the country's proven reserves, and lignite accounted for the remaining 20%. Hard coal occurs in the States of Bihar, Madhya Pradesh, Orissa, and West Bengal in 18 major coalfields. Coal was used mostly in electric power generation in India, and coal production could not keep up with the increasing demand for power in the country. As a result, India became a net importer of coal. India also imported most of its coking coal (Methane to Markets Partnership, 2007).

Natural Gas.—Reliance Industries struck two gas-bearing zones in its prolific deepwater block in the Krishna Godavari basin; the two zones were expected to produce 80 million cubic meters per day of gas by mid-2008. Niko Resources of Canada owned a 10% stake in the block. Reliance Industries also flowed 526,400 cubic meters per day of gas in the Gujarat-Saurashtra basin off the west coast. Hardy Oil & Gas held a 10% interest in the exploration license (Petroleum Economist, 2007a).

India, Iran, and Pakistan planned to start laying the \$7 billion Iran-Pakistan-India natural gas pipeline on a segmented basis by September 2009. Each country would build the pipeline in its territory. The 1,092-km Iranian segment would cost \$3.99 billion, the 655-km Pakistani segment would cost \$2.64 billion, and the 344-km Indian segment would cost \$600 million. The pipeline was expected to be completed in 2014. Natural gas would originate from Iran's South Pars Gasfield in the Persian Gulf. Pakistan's natural gas sales and purchase agreement with National Iranian Gas Co. was signed in June 2007. The first flow of gas was expected in 2014. However, India had disputes with Pakistan's imposed transportation tariff and transit fee on gas delivered to India (Alexander's Gas & Oil Connections, 2007).

A memorandum of understanding signed in September with state-owned Oil and Natural Gas Corp. (ONGC) gave BP Exploration and Production Co. Ltd. (BP E&P) the right to explore and exchange technical know-how on deepwater hydrocarbons and coalbed methane. BP E&P acquired the exploration rights to a coalbed methane block in West Bengal. India has a large amount of coal resources, which could potentially be methane gas-bearing (BP Magazine, The, 2007).

India relied solely on domestic sources for natural gas, but supplies fell short of demand. Imports of liquefied natural gas (LNG) were through Petronet LNG Ltd. of India. Regasified LNG accounted for 20% of India's total gas consumption. The International Finance Corp. proposed to invest \$350 million in the form of loans for 13 years in Petronet LNG's expansion plan to more than double its existing import and regasification capacities. The plan called for expansion of the Dahej terminal in Gujarat and construction of the greenfield Kochi terminal in Kerala (International Finance Corp., 2007a, p. 4).

Petronet LNG planned to extend its short-term LNG import deal with Qatar until December 2008. The company imported 1.25 Mt of LNG from RasGas of Qatar in 2007 and planned to import an additional 0.75 Mt in 2008. Supplies would feed the Dabhol powerplant in Maharashtra (Petroleum Economist, 2007b).

Petroleum.—State-owned ONGC planned to spend \$19.5 billion on domestic upstream projects during the next 5 years, including \$1.5 billion at the offshore Mumbai High Oilfield. Eighty-six new wells were planned at the field and would produce an additional 162 million barrels of oil and increase output by 30,000 barrels per day (bbl/d) (Petroleum Economist, 2007b).

India was Asia's third ranked oil consumer and imported 70% of its crude oil requirements. To boost its domestic oil production, the Government planned to auction 57 offshore and onshore oil and gas blocks in December. These included 19 deepwater blocks, mostly on the west coast; 9 shallow water blocks; and 29 inland blocks. The bidding would be closed in April 2008 and the blocks would be allocated in July. Thirty-six foreign companies submitted bids in the previous round (Washington Post, The, 2007a).

Essar Oil Ltd. planned to build a 360,000-bbl/d oil refinery next to its existing 240,000-bbl/d plant at Vadinar in Gujarat by June 2010. The new plant would increase the company's total refining capacity to 680,000 bbl/d (Petroleum Economist, 2007b).

Uranium.—The Cabinet Committee on Economic Affairs cleared the development by Uranium Corp. of India of a uranium mine and processing plant at Tummalapalle in the

Kadapa District in Andhra Pradesh at a cost of \$281 million. The project was expected to meet the uranium fuel requirements of India's nuclear power program and would provide employment to 934 people. The mine was likely to be commissioned in 30 months, and the processing plant, in 36 months (Hindu, The, 2007).

Reserves and Resources

The country's mineral resources include large deposits of barite, bauxite, chromite, coal, iron ore, limestone, and manganese. India ranked second after China in barite resources; in iron ore reserves, it ranked third in the world. The country's bauxite, chromite, coal, limestone, and manganese reserves or resources were among the 10 largest in the world. Barite deposits occur in the State of Andhra Pradesh. Iron ore deposits in the form of hematite and magnetite occur in the States of Bihar, Karnataka, Madhya Pradesh, Orissa, and Tamil Nadu (table 3).

Outlook

India's mine production of copper is expected to increase with mine expansions and the development of a new mine by HCL, which would make the company self-sufficient in copper concentrates from domestic sources. Although the country shipped most (82%) of its iron ore exports to China, which had an advantage of low freight costs from India compared with those from Australia and Brazil, the iron ore exports are expected to decrease as domestic steel plants use more iron ore from the producing states in the next 4 to 5 years owing to capacity expansions and planned new steel plants. The lead and zinc smelting capacities are expected to increase owing to Exide Industries' and HZL's planned expansions by 2010. India has abundant hard coal resources; because of the coal's low calorific value, production shortfall, and strong demand for power the country, however, India is expected to remain a net coal importer to feed its coal-fired powerplants in the near future.

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TABLE 1 INDIA: ESTIMATED PRODUCTION OF MINERAL COMMODITIES^{1, 2}

(Metric tons unless otherwise specified)

Commodity ³		2003	2004	2005	2006	2007
METALS		2000	2001	2000	2000	2007
Aluminum:						
Bauxite gross weight	thousand metric tons	10 414 4	11 285 4	12 385 4	13 940 ^{r, 4}	19 221 4
Alumina Al ₂ O ₂ equivalent	do	2 500	2 600	2 700	2 800	2 900
Metal primary		$798\ 800\ 4$	861 800 ⁴	$942\ 400\ 4$	$1 104 100^{4}$	123100^{4}
Cadmium metal		477 ⁴	489 4	409 4	457 ^{r, 4}	580 4
Chromium chromite gross weight		$2\ 210\ 000\ ^{4}$	2 948 944 ⁴	3 255 162 4	3 600 400 ^{r, 4}	3 320 000
Cobalt metal		2,210,000 255 ⁴	545 ⁴	1 220 4	1 184 ⁴	980 ⁴
Copper:		200	0.10	1,220	1,101	200
Mine output. Cu content		28.500^{-4}	29.500^{-4}	26.900^{-4}	27 400 ^{r, 4}	34.700^{-4}
Metal, primary:			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,	_,,	,
Smelter		391.000 ⁴	401.000 4	486,600 4	610,000 ^{r, 4}	500,400 ⁴
Refinerv		.,	,	,	,	,
Electrolytic, cathode		375.000 4	399.000 ⁴	497.000 4	629.000 ⁴	718.600 ⁴
Fire refined		19.000	20,000	20,000	15.000 ^r	15,000
Total		394,000	419.000	517.000	644.000 r	734.000
Gold metal, smelter	kilograms	3,200 4	3,700 4	3,100 4	2,400 ^{r, 4}	3,000 4
Iron and steel:		-,	- ,	-,	,	- ,
Iron ore and concentrate:						
Gross weight	thousand metric tons	99,100 ⁴	120,600 4	152,000 ^{r, 4}	177,000 ^{r, 4}	202,000 4
Fe content	do.	63,400 ⁴	77,200 4	97,500 ^{r, 4}	113,000 ^{r, 4}	129,000 4
Metal:		,	,)	- ,	- ,
Pig iron	do.	26,550 ^{r, 4}	25,117 ^{r, 4}	27,125 ^{r, 4}	28,300 ^{r, 4}	28,800 ⁴
Direct-reduced iron	do.	7.670 4	9.370 ⁴	12.040 4	14.740 ⁴	18.100^{-4}
Ferroallovs:		.,		,	,	-,
Ferrochromium, including charge chrome	2	468,677 ⁴	527,100 ⁴	611,373 ⁴	634,200 ^{r, 4}	640,000
Ferrochromiumsilicon		10.000	10.000	10.000	10.000	10.000
Ferromanganese		165.000	170.000	170.000	180.000	180,000
Ferrosilicon		54,000	55.000	56.000	58,000	60.000
Silicomanganese		160,000	160.000	170,000	180,000	180,000
Other		9.000	9.000	9.000	9,000	9.000
Steel crude	thousand metric tons	31,779 ⁴	32,600 ⁴	45,800 ^{r,4}	49,500 ^{r,4}	53,100 ⁴
Semimanufactures ⁵	do.	35.639 ⁴	38.421 ⁴	42.947 4	45,000	47.000
Lead:		,,		,,	,	,
Mine output. Pb content		44.000 4	51.300 4	60.400 ⁴	69.200 ^{r, 4}	77.600 ⁴
Metal, refined:		,	- /	,	/	
Primary		77,500 4	40,000 4	56.000 ⁴	77.700 ^{r. 4}	88,800 4
Secondary		41,000 4	25,000 ⁴	35,000 4	35,000 4	35,000 4
Total		118,500 4	65,000 ⁴	91,000 ⁴	112,700 ^{r, 4}	123,800 4
Manganese:						
Ore and concentrate, gross weight	thousand metric tons	1,650	1,776 ^{r, 4}	2,386 ^{r, 4}	2,003 ^{r, 4}	2,300
Mn content	do.	620	630	927 ^{r, 4}	811 ^{r, 4}	900
Rare-earth metals, monazite concentrate, gross	weight	5,000	5,000	5,000	5,000	5,000
Selenium	kilograms	12,000	12,000	13,000	13,000	14,000
Silver, mine and smelter output	do.	51,200 4	14,500 4	31,500 4	30,900 ^{r, 4}	79,300 ⁴
Titanium concentrates, gross weight:						
Ilmenite		562,000 ^r	621,000 ^r	686,000 ^r	690,000 ^r	700,000
Rutile		18,400 ^r	19,600 ^r	20,100 ^r	21,000 r	21,000
Zinc:						
Mine output, concentrate:						
Gross weight		306,400 4	347,100 4	477,200 4	535,500 ^{r, 4}	572,300 4
Zn content		169,000	191,000	262,000	294,000 ^r	314,000
		,				· ·

TABLE 1—Continued INDIA: ESTIMATED PRODUCTION OF MINERAL COMMODITIES^{1, 2}

(Metric tons unless otherwise specified)

Commodity ³	2003	2004	2005	2006	2007
METALS—Continued					
Zinc—Continued:					
Metal:					
Primary	253,900 ⁴	238,400 4	266,200 4	420,900 ^{r, 4}	416,800 4
Secondary	24,000	24,000	23,000	23,000	23,000
Total	278,000	262,000	289,000	444,000 r	440,000
Zirconium concentrate, zircon, gross weight	24,800 ^r	25,400 ^r	26,700 ^r	28,000 ^r	29,000
INDUSTRIAL MINERALS					
Abrasives, natural, n.e.s. ⁶ :					
Corundum, natural kilograms	1,150	1,100	1,100	1,000	1,000
Garnet	120,000	125,000	120,000	115,000	120,000
Jasper	8,500	8,500	8,700	8,800	9,000
Asbestos	19,000	18,000	19,000	20,000	21,000
Barite	723,000	1,100,000	1,200,000	950,000	1,000,000
Bromine, elemental	1,500	1,500	1,500	1,500	1,500
Cement, hydraulic thousand metric tons	123,000	130,000	145,000	160,000 ^r	170,000
Chalk	115,000	115,000	120,000	120,000	125,000
Clays:					
Ball clay	390,000	400,000	420,000	420,000	430,000
Diaspore	12,000	11,000	11,000	10,000	10,000
Fireclay	360,000	365,000	370,000	375,000	380,000
Kaolin:					
Salable crude thousand metric tons	550	550	560	560	570
Processed do.	180	180	190	200	200
Total do.	730	730	750	760	770
Other do.	75	75	80	80	85
Diamond:					
Gem thousand carats	16	16	16	15	15
Industrial do.	44	43	42	40	40
Total do.	60	59	58	55	55
Feldspar	150,000	150,000	150,000	160,000	160,000
Fluorspar:					
Concentrates, metallurgical-grade	6,300	6,400	6,500	5,800 ^r	5,000
Other fluorspar materials, graded	4,200	4,300	4,400	500 ^r	1,000
Gemstones, excluding diamond:					
Agate, including chalcedony pebble	200	200	180	180	170
Garnet kilograms	800	850	850	800	800
Graphite ⁷	110,000	120,000	130,000	120,000	130,000
Gypsum	2,300,000	2,350,000	2,400,000	2,450,000	2,500,000
Kyanite and related materials:					
Kyanite	6,000	6,200	6,800	7,000	7,300
Sillimanite	14,000	14,500	15,000	15,000	15,200
Lime	900,000	900,000	920,000	910,000	900,000
Magnesite	380,000	370,000	380,000	370,000	360,000
Mica:					
Crude	1,600	1,600	1,600	1,700	1,700
Scrap and waste	2,000	2,100	2,100	2,200	2,200
Total	3,600	3,700	3,700	3,900	3,900
Nitrogen, N content of ammonia thousand metric tons	10,048 4	10,718 4	10,800	10,900	11,000
Phosphate rock, including apatite	1,175,000 4	1,180,000	1,200,000	1,200,000	1,210,000
Pigments, mineral, natural, ocher	365,000	360,000	360,000	370,000	375,000
Pyrites, gross weight	115,000	120,000	130,000	125,000	120,000

TABLE 1—Continued INDIA: ESTIMATED PRODUCTION OF MINERAL COMMODITIES^{1, 2}

(Metric tons unless otherwise specified)

Commodity	3	2003	2004	2005	2006	2007
INDUSTRIAL MINERAI	_S—Continued					
Salt:						
Rock salt	thousand metric tons	3	3	3	3	3
Other	do.	15,000	15,000	15,500	15,500	16,000
Total	do.	15,000	15,000	15,500	15,500	16,000
Sand:						
Calcareous	do.	250	255	260	265	270
Silica	do.	1,500	1,500	1,600	1,600	1,600
Other	do.	2,900	3,000	3,100	3,200	3,100
Slate		10,500	11,000	12,000	12,500	13,000
Soda ash		1,500,000	1,500,000	1,500,000	1,500,000	1,500,000
Stone, sand and gravel:						
Calcite		52,000	52,000	53,000	54,000	54,000
Dolomite	thousand metric tons	2,900	3,000	3,000	3,000	3,100
Limestone	do.	120,000	125,000	120,000	123,000	125,000
Quartz and quartzite	do.	250	260	270	270	280
Sulfur, byproduct from fertilizer plants		11,500	12,000	13,000	14,000	15,000
Talc and related materials:						
Pyrophyllite		86,000	86,000	85,000	86,000	87,000
Steatite, soapstone		552,000	550,000	545,000	560,000	555,000
Vermiculite		4,400	4,400	4,500	4,600	4,700
Wollastonite		120,000	115,000	120,000	125,000	120,000
MINERAL FUELS AND RELA	ATED MATERIALS					
Coal:						
Bituminous	thousand metric tons	328,000	330,000	333,000	350,000	380,000
Liginte	do.	25,000	25,000	27,000	26,000	25,000
Total	do.	353,000	355,000	360,000	376,000	405,000
Gas, natural:						
Gross	million cubic meters	27,000	28,000	29,000	30,000	31,000
Marketable	do.	25,000	26,000	27,000	28,000	29,000
Petroleum:						
Crude	thousand 42-gallon barrels	241,000	244,000	248,000	250,000	255,000
Refinery products:						
Liquefied petroleum gas	do.	44,000	44,000	45,000	45,000	46,000
Gasoline	do.	42,000	43,000	43,000	44,000	44,000
Kerosene and jet fuel	do.	59,000	60,000	60,000	62,000	62,000
Distillate fuel oil	do.	171,000	172,000	173,000	173,000	175,000
Residual fuel oil	do.	70,000	71,000	71,000	72,000	72,000
Other	do.	93,000	93,000	94,000	95,000	96,000
Total	do	479.000	483,000	486,000	491.000	495,000

^rRevised. do. Ditto.

¹Estimated data are rounded to no more than three significant digits; may not add to totals shown.

²Table includes data available through October 20, 2008.

³In addition to commodities listed, other gemstones (aquamarine, emerald, ruby, and spinel) and uranium are produced, but output is not reported, and available information is inadequate to make reliable estimates of output.

⁴Reported figure.

⁵Excludes production from steel miniplants.

⁶Not elsewhere specified.

 7 India's marketable production is 10% to 20% of mine production.

TABLE 2 INDIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2007

(Thousand metric tons unless otherwise specified)

			Annual
Commodity	Major operating companies and major equity owners	Location of main facilities	capacity ^e
Alumina	Indian Aluminium Co. Ltd. [Indian interests, 60.4%, and Alcan	Belgaum Refinery, Karnataka	280
	Aluminium Ltd. (Canada), 39.6%]		
Do.	National Aluminium Co. Ltd. (Indian Government, 100%)	Dhamanjodi Refinery, Orissa	1,580
Do.	Bharat Aluminium Co. Ltd. (Indian Government, 49%, and Sterlite	Korba Refinery, Chhattisgarh	200
	Industries Ltd., 51%)		
Do.	Utkal Alumina International Ltd. (Hindalco Industries Ltd., 100%)	Koraput Refinery, Orissa	$1,500^{-1}$
Do.	Madras Aluminium Co. Ltd. (Sterlite Industries Ltd.,	Mettur Refinery, Tamil Nadu	80
	80%, and others, 20%)		
Do.	Indian Aluminium Co. Ltd. [Indian interests, 60.4%, and Alcan	Muri Refinery, Jharkhand	88
	Aluminium Ltd. (Canada), 39.6%]		
Do.	Hindalco Industries Ltd. (Birla Group, 33%; foreign investors,	Renukoot Refinery, Uttar Pradesh	450
	26%; private Indian investors, 23%; financial institutions, 18%)		
Aluminum	Indian Aluminium Co. Ltd. [Indian interests, 60.4%, and Alcan Aluminium Ltd. (Canada), 39.6%]	Alupuram Smelter, Kerala	20
Do.	National Aluminium Co. Ltd. (Indian Government, 100%)	Angul Smelter, Orissa	345
Do.	Indian Aluminium Co. Ltd. [Indian interests, 60.4%, and Alcan	Belgaum Smelter, Karnataka	70
	Aluminium Ltd. (Canada), 39.6%]		
Do.	Hindalco Industries Ltd. (Birla Group, 33%; foreign investors,	Hirakud Smelter, Orissa	100
	26%: private Indian investors, 23%: financial institutions, 18%)		
Do.	Bharat Aluminium Co. Ltd. (Indian Government, 49%, and Sterlite	Korba Smelters, Chhattisgarh	350
	Industries Ltd., 51%)		
Do.	Madras Aluminium Co. Ltd. (Sterlite Industries Ltd.,	Mettur Smelter, Tamil Nadu	40
	80%, and others, 20%)		
Do.	Hindalco Industries Ltd. (Birla Group, 33%; foreign investors,	Renukoot Smelter, Uttar Pradesh	275
	26%; private Indian investors, 23%; financial institutions, 18%)		
Barite	Andhra Pradesh Mineral Development Corp. Ltd. (Andhra Pradesh	Cuddapah district mines, Andhra	350
	State government, 100%)	Pradesh	
Do.	Associated Mineral Corp.	do.	75
Do.	Pragathi Minerals	do.	50
Do.	Shri C.M. Ram nath Reddy	do.	75
Do.	Vijayalaxmi Minerals Trading Co.	do.	50
Bauxite	Bharat Aluminium Co. Ltd. (Indian Government, 49%, and Sterlite	Amarkantak Mine, Madhya Pradesh	200
	Industries Ltd., 51%)		
Do.	Indian Aluminium Co. Ltd. [Indian interests, 60.4%, and Alcan	Kolhapur district mines, Maharashtra	600
	Aluminium Ltd. (Canada), 39.6%]		
Do.	Gujarat Mineral Development Corp. (Gujarat State government,	Kutch and Saurashtra Mines, Gujarat	500
	100%)		
Do.	Hindalco Aluminium Co. Ltd. (Birla Group, 33%; foreign investors,	Mines in Lohardaga District, Jharkhand	750
	26%; private Indian investors, 23%; financial institutions, 18%)		
Do.	Indian Aluminium Co. Ltd. [Indian interests, 60.4%, and Alcan	do.	200
	Aluminium Ltd. (Canada), 39.6%]		
Do.	National Aluminium Co. Ltd. (Indian Government, 100%)	Mines in Panchpatmali Hills, Koraput	4,800
		District, Orissa	
Do.	Minerals & Minerals Ltd. (Indian Government, 100%)	Mines in Richuguta, Palamau District,	200
		Jharkhand	
Borax	Borax Morarji Ltd.	Ambernath, Maharashtra	17
Cement	Larsen and Toubro Ltd.	Awarpur Plant, Maharashtra	2,300
Do.	Century Cement (Century Textiles and Industries Ltd., a subsidiary	Baikunth Plant, Madhya Pradesh	1,120
	of the Birla Group, 100%)		
Do.	Ambuja Cements Ltd. (Holcim Group, 14.8%)	Plants in 7 States	14,000

TABLE 2—Continued INDIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2007

(Thousand metric tons unless otherwise specified)

Commed Commadel Fertilizers Ld. (Chevron Chemial Co., Ushiel Steins). Chilankar Plant, Andhra Pradesh 1.000 23559: Intervisional Minoral and Chemical Co., 20599; Pury and Co., 10.64%; ELD, Pury (India) Ld., 6559; others, 3827%] 1 Do. The Associated Center Co., 11.4, (Indian Government, NJ.86%, and Gagal Plant, Himachal Pradesh 1,830 Dis. Raymond Center Works (a division of Raymond Wookn Mills Ld., Compliager Plant, West Bengal 1,250 Do. Normada Camera Co., 11.4, (Chevogule and Co., 124, 349; Gujarti Jafrabad Plant, Gujarat 1,000 State government, 17.339; others, 48,673) 1 1,000 1,000 Do. Rajahare Cencert (a division of Indian Raymon and Industries Ld., Kbr Plant, Karnataka 1,220 Do. The Associated Cencert Cos. Ld. (Indian Government, 34,86%, and Kymore Plant, Madhya Pradesh 1,500 Do. Mangalan Cencert Ld. Morak Plant, Rajashan 1,000 Do. Mangalan Cencert Ld. Orestone Marks, 41,139%; Normigarb Plant, Madhya Pradesh 1,330 Do. Cenneut Works (a division of K Synthetis Ld., 100%) Ninpageno Plant, Mashya Pradesh 1,462 Do. Cenneut Co., Di India Ld. (Indian Government, 20%; Ld. Orestone Nagashan 1,462	Com	modity	Major operating companies and major equity owners	Location of main facilities	Annual capacity ^e
23.5%: International Minorals and Chemical Co., 20.8%: Parry international Network and Co., 10.64%: ELD. Parry (India) Lub, 65.5%; others, 38.27%] international Network Do. The Associated Connert Cos. Ltd. (Indian Government, 53.46%; and Gagal Plant, Humachal Pradesh 1.830 Do. Raymond Cennet Works (at division of Raymond Wooden Mills Lub, Goplanagar Plant, West Bergal 1.259 Do. Narmada Cennet Works (at division of Indian Raym and Industries Lub. Khor Plant, Karnataka 1.020 Do. Rayishere Cennet Cos. Lub (Chooped and Co. Lub, 34%: Gajarat 1.000 Do. Rayishere Cennet Cos. Lub (Indian Government, 34.86%, and Kynoner Plant, Madhya Pradesh 1.500 Do. Mangalan Cennet I division of Indian Raym and Industries Lub. Khor Plant, Rajashen 1.000 Do. Mangalan Cennet I division of Indian Raym and Industries Lub. Norsk Plant, Rajashan 1.020 Do. Mangalan Cennet I division of Indian Government, 13.46%; just division of R Synthetics Lub. Nayagaon Plant, Madhya Pradesh 1.330 Do. Cennent Works (a division of Indian Government, 20%; Jul Nayagaon Plant, Madhya Pradesh 1.320 Do. Inte India Cennet (Co. Lub. (Indian Government, 20%; Jul Santa Plant, Madhya Pradesh 1.480 Do. Inte India Cennet (Co. Lub. (Indian Government, 20%; Jul Santa Plant, Madhya Pradesh 1.480 Do. <td>Cement—Continue</td> <td>ed set</td> <td>Coromandel Fertilizers Ltd. [Chevron Chemical Co. (United States).</td> <td>Chilamkur Plant, Andhra Pradesh</td> <td>1.000</td>	Cement—Continue	ed set	Coromandel Fertilizers Ltd. [Chevron Chemical Co. (United States).	Chilamkur Plant, Andhra Pradesh	1.000
and Co., 10645; E.I.D. Pary, (Initial Lid., 655%; others, 38:27%) Do. The Avocitated Consert Os, Lid., Indiana Government, 34:86%, and Gagal Plant, Himachal Pradesh private shareholders, 65:14%) Do. Rommod Cernent Works (a division of Raymond Woolen Mills Lid., Gopalnagar Plant, West Bengal 1.250 J.K. Singbains, incincial shareholders) Jafrahad Plant, Gujarat 1.000 Do. Normoda Cennent Co. Lid. (Choosgule and Co. Lid., 34%; Gujarat Jafrahad Plant, Gujarat 1.000 Do. Rajsshere Cennet (a division of Indian Raym and Industries Lid., Khor Plant, Karnataka 1.020 Do. The Associated Cennent Cos. Lid. (Indian Government, JA:86%, and Kymore Plant, Madhya Pradesh 1.500 Do. Mayore Cennent SLG. (Government institutions and hands, 1.13%; Norsingahr Plant, Haryana 1.080 Do. Mayore Cennent Government institutions and hands, 1.13%; Norsingahr Plant, Haryana 1.080 Do. Cennent Works (a division of Kaymeter) Norsingahr Plant, Madhya Pradesh 1.300 Do. India Lid. (Indian Government, 20%; Life Saturanger Plant, Madhya Pradesh 1.430 Do. The India Cennet (Construct Norths) Nargagano Plant, Mashya Pradesh 1.430 Do. High Cennet (Construct Norths)	comment commute		23.55%: International Minerals and Chemical Co., 20.89%: Parry		1,000
Do. The Associated Cenner (Cos. Lul, (Indua Government, 34.89%, and Gagal Plant, Himachal Pradesh 1.830 private shareholders, 65.14%) Do. Raymond Cenner Works (a division of Raymond Woolen Mills Lul, Gopalmagar Plant, West Bengal 1.250 JK Singhania, principal shareholders) Do. Narmoda Cenner (Co. Lul, (Chooge and Co. Lul, 34%; Gujarat 1afrabad Plant, Gujarat 1000 State government, 17.35%; others, 48.67%) Jafrabad Plant, Gujarat 1000 State government, 17.35%; others, 48.67%) Do. Rajashre: Cenner (Co. Lul, (Chooge and Doutries Lul, Koro Plant, Madhya Pradesh 1.500 private shareholders, 65.14%) Morat Plant, Rajashre: Cenner (Co. Lul, (Jongen Government, 54.86%, and Kymore Plant, Madhya Pradesh 1.500 private shareholders, 65.14%) Morat Plant, Rajashne: Cenner Lul, (Lul, (Indian Government, 100%) Ninshare Plant, Kajashan 1.000 private shareholders, 65.14%) Do. Mangalam Cenner Lul, (Indian Government, 100%) Ninshare Plant, Kajashan 1.489 La80 private Shareholders, 65.14%) Do. Cornert Corp. of India J.44; (Indian Government, 20%; Life Santamagar Plant, Kajashan 1.480 la00 hasanace Corp. India, 24%; (Indian Government, 26%; Life Santamagar Plant, Kajashan 1.480 la00 hasanace Corp. India, 24%; (Indian Government, 26%; Life Santamagar Plant, Rajashan 1.480 la00 hasanace Corp. India, 24%; (Indian Government, 26%; Life Santamagar Plant, Kajashan 1.400 hasanace plant, Madhya Pradesh 1.480 private shareholder) Do. Share horder, India, 26%; Chita, KSinghania, Sinthehasana, Sinthehasashar 1.1000 hasanace plant, Kajashan 1.400 hasanace playing Cen			and Co. 10.64%: ELD Parry (India) Ltd. 6.65%: others 38.27%]		
private shareholders. 65.14%) bage bage <thbage< th="" thape<=""> bage babs<td>Do</td><td></td><td>The Associated Cement Cos Ltd (Indian Government, 34 86% and</td><td>Gagal Plant, Himachal Pradesh</td><td>1.830</td></thbage<>	Do		The Associated Cement Cos Ltd (Indian Government, 34 86% and	Gagal Plant, Himachal Pradesh	1.830
Do. Raymond Cement Works (a division of Raymond Woolen Mills Ltd., Gopalnagar Plant, West Bengal 1.250 JK. Singhania, principal shareholder) Jafrabad Plant, Gujant 1.000 State government, 17.35%; others, 48.67%) Jafrabad Plant, Gujant 1.000 Do. Rajastree Center (a division of Indian Rayon and Industries Ltd., Khor Plant, Karnataka 1.020 Do. Rajastree Center (a division of Indian Rayon and Babaks; 41.13%; Narasingand Plant, Haryana 1.600 Do. Mangalam Cemeent Ld. Merak Plant, Rajasthan 1.000 Do. Mangalam Cemeent Ld. Merak Plant, Rajasthan 1.000 Do. Cemeent Core of India Ltd. (Indian Government, 10%) Narasingand Plant, Haryana 1.890 Do. Cemeent Core of India Ltd. Orisa 1.850 Do. Cemeent Core of India Ltd. Orisa 1.850 Do. OCI-India Ltd. Orisa 1.800 Insurate Ceneral (Core of India Advison of Straw Poducts Ltd., as ubsidiary Sankärneger Plant, Madrya Pradesh 1.800 Do. Mahar Cenerat (Corticy of India Adviso of Straw Poducts Ltd., NK Singhania, Sirceh Flant, Kajasthan 1.040 Do.	20.		private shareholders 65 14%)	Sugar Fluid, Finnachar Fradesh	1,000
Do. Narmada Canent Co. 11d. (Chowgule and Co. 11d., 34%; Gijarat Jafrabad Plant, Gijarat 1,000 State government, 17.33%; obtes, 48.67%) Jafrabad Plant, Gijarat 1,000 Do. Rajashtree Cemeri (a division of Indian Rayon and Industries Ltd., Khor Plant, Karnataka 1,020 J005 The Associated Cemeri Cos. Ltd. (Indian Government, 34.86%, and Kymore Plant, Madhya Pradesh 1,500 Do. Managiann Cemeri L ad. Morek Plant, Rayashan 1,000 Do. Managiann Cemeri L ad. Morek Plant, Rayashan 1,080 Corporate Trust Hodilays, 21,70%; others, 32,17%) Nayagaon Plant, Marhya Pradesh 1,330 Do. Geneent Corp. of India Ltd. (Indian Government, 100%) Nayagaon Plant, Mathya Pradesh 1,330 Do. OC. Chenent Cortus Vertiskin and Industries Ld., ausbisidary Satua Plant, Mathya Pradesh 1,800 Do. Mathar Cemere Co. Ltd. (Indian Government, 26%; Life Satua Plant, Mathya Pradesh 1,800 Do. Mathar Cemere (Centrus Vertiskin and Industries Ld., ausbisidary of thes Briat Agrapha 1,400 Do. Mathar Cemere (Centrus Vertiski and Industries Ld., assistiang Viant Matharashtra 1,000 Instaster Cemere (Centrus Vertiski and Industritis Ld., ausbisidary of t	Do		Raymond Cement Works (a division of Raymond Woolen Mills I td	Gonalnagar Plant West Bengal	1 250
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Do. State government, 17.33%; others, 48.67%, others, 48.67\%, others, 48.67\%, others, 48.67\%, ot	Do		Narmada Cement Co. I td. (Chowgule and Co. I td. 34%: Guiarat	Jafrahad Plant Gujarat	1.000
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Government, 100%)	Do.	do.	Mahanadi Coalfields Ltd. (a subsidiary of Coal India Ltd., Indian	Orissa	21
			Government, 100%)		

TABLE 2—Continued INDIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2007

(Thousand metric tons unless otherwise specified)

				Annual
Commo	dity	Major operating companies and major equity owners	Location of main facilities	capacitye
Coal, bituminous— r	nillion metric tons	North Eastern Coalfields Ltd. (a subsidiary of Coal India Ltd.,	Assam	640
Continued		Indian Government, 100%)		
Do.	do.	Northern Coalfields Ltd. (a subsidiary of Coal India Ltd., Indian	Madhya Pradesh and Uttar Pradesh	24
	- t.	Government, 100%)	An diana Dua da ak	10
D0.	do.	Singareni Colleries Co. Ltd. (Andria Pradesh State government,	Andnra Pradesn	18
Do	do	South Eastern Coalfields I td. (a subsidiary of Coal India I td.	Madhya Pradesh	36
D0.	u0.	Indian Government 100%)	Mauliya Flauesh	30
Do	do	Western Coalfields I td. (a subsidiary of Coal India I td. Indian	Madhya Pradesh and Maharashtra	18
D0.	uo.	Government, 100%)	Wadnya i radesh and Waharashtra	10
Coal, lignite	do.	Nevveli Lignite Corp. Ltd. (Indian Government, 100%)	Tamil Nadu	17
Copper, mine		Hindustan Copper Co. Ltd. (Indian Government, 100%)	Indian Copper Complex Mines, Ghatsila	31
Copper, mine			District, Jharkhand	01
Do.		do.	Khetri Copper Complex Mines,	15
			Khetrinagar Rajasthan	
Do.		do.	Malanjkhand Copper Complex Mines,	22
			Balaghar District, Madhya Pradesh	
Copper, metal		Hindalco Industries Ltd. (Birla Group, 33%; foreign investors,	Birla Copper Complex smelter, Dahej,	70
		26%; private Indian investors, 23%; financial institutions, 18%)	Gujarat	
Do.		Hindustan Copper Co. Ltd. (Indian Government, 100%)	Indian Copper Complex smelter-refinery,	20
			Ghatsila District, Jharkhand	
Do.		do.	Khetri Copper Complex smelter-refinery,	45
			Khetrinagar District, Rajasthan	
Do.		Sterlite Industries Ltd.	Tuticorin Smelter, Tamil Nadu	400
Do.		do.	Silvassa Refinery, Gujarat	300
Diamond	carats	Indian Government	Mahigawan Mine	25,000
Gold	kilograms	Hutti Gold Mines Co.	Hutti Mine, Karnataka	3,000
Ilmenite-rutile ore	C	Kerala Minerals and Metals Ltd. (Kerala State government, 100%)	Chavara, Kerala	100
Do.		Indian Rare Earths Ltd. (Indian Government, 100%)	do.	200
Do.		do.	Ganjam, Orissa	220
Do.		do.	Manavalakurichi, Tamil Nadu	65
Do.		VV Minerals Ltd.	Kanyakumari, Tamil Nadu	130
Iron and steel, crude st	eel	Visvesvarava Iron and Steel Ltd. (Karnataka State government, 60%,	Bhadravati steel plant, Karnataka	180
		and Steel Authority of India Ltd., Indian Government, 40%)	F F,	
Do.		Steel Authority of India Ltd. (Indian Government, 100%)	Bhilai steel plant, Jharkhand	4,930
Do.		do.	Bokaro steel plant, Jharkhand	4,600
Do.		Indian Iron and Steel Co. Ltd. (wholly owned subsidiary of Steel	Burnpur steel plant, West Bengal	1,500
		Authority of India Ltd., Indian Government, 100%)		
Do.		Ispat Industries Ltd.	Dolvi, Maharashtra	3,000
Do.		Steel Authority of India Ltd. (Indian Government, 100%)	Durgapur steel plant, West Bengal	1,600
Do.		Tata Iron and Steel Co. Ltd.	Jamshedpur steel plant, Jharkhand	5,000
Do.		do.	Jagdalpur, Chattisgarh	2,000
Do.		do.	Duburi, Orissa	3,000
Do.		Steel Authority of India Ltd. (Indian Government, 100%)	Rourkela steel plant, Orissa	1,800
Do.		Rashtriya Ispat Nigam Ltd.	Visakhapatnam steel plant, Andhra	3,200
			Pradesh	
Do.		JSW Steel Co. Ltd.	Vijayanagar, Karnataka	7,000
Do.		Ministeel plants (privately owned)	About 180 plants located throughout	4,700
			India	
Do.		Essar Steel Co. Ltd.	Hazira, Gujarat	3,000
Do.		Lloyds Steel Industries Ltd.	Wardha, Maharashtra	500

TABLE 2—Continued INDIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2007

(Thousand metric tons unless otherwise specified)

			Annual
Commodity	Major operating companies and major equity owners	Location of main facilities	capacitye
Iron ore	National Mineral Development Corp. Ltd. (Indian Government, 100%)	Bailadila, Chhattisgarh	9,000
Do.	Steel Authority of India Ltd. (Indian Government, 100%)	Bastar and Durg district, Chhattisgarh	7,000
Do.	Kudremukh Iron Ore Co. Ltd. (Indian Government, 100%)	Kudremukh, Chikmagalur district, Karnataka	10,300
Do.	National Mineral Development Corp. Ltd. (Indian Government, 100%)	Donimalai, Karnataka	9,000
Do.	Chowgule and Co. Ltd.	Goa	2,500
Do.	Dempo Mining Corp. Ltd.	Goa	2,500
Do.	V.M. Salgaocar & Bros. Pvt. Ltd.	do.	2,500
Do.	Sesa Goa Ltd. (Vedanta Resources plc, 51%)	Codli and Sonshi, Goa	NA
Do.	Steel Authority of India Ltd. (Indian Government, 100%)	Kendujhar District, Orissa	3,000
Do.	Tata Iron and Steel Co. Ltd.	do.	2,000
Do.	Indian Iron and Steel Co. Ltd. (wholly owned subsidiary of Steel Authority of India Ltd., Indian Government, 100%)	Singhbhum District, Bihar	2,500
Do.	Steel Authority of India Ltd. (Indian Government, 100%)	do.	3,500
Do.	Tata Iron and Steel Co. Ltd.	do.	3,500
Kyanite	Associated Mining Co.	Bhandara District, Maharashtra	10
Do.	Maharashtra Mineral Corp. Ltd.	do.	10
Do.	Bihar State Mineral Development Corp. Ltd. (Bihar State government, 100%)	Singhbhum District, Bihar	10
Do.	Hindustan Copper Co. Ltd. (Indian Government, 100%)	do.	22
Lead:			
Primary	Hindustan Zinc Ltd. (Sterlite Opportunities and Ventures Ltd., 64.9%, and Indian Government, 29.5%)	Chanderiya Smelters, Rajasthan	85
Do.	do.	Tundoo Smelter, Bihar	8
Secondary	Indian Lead Co.	Thane Refinery, Mumbai, Maharashtra	25
Do.	do.	Wada, Mumbai, Maharashtra	40
Lead ore	Hindustan Zinc Ltd. (Sterlite Opportunities and Ventures Ltd., 64.9%, and Indian Government, 29.5%)	Agnigundala Mine, Andhra Pradesh	72
Do.	do.	Sargipalli Mine, Orissa	150
Lead-zinc ore	do.	Rampura-Agucha Mine, Rajasthan	1,300
Do.	do.	Zawar mine group, Rajasthan	1,200
Magnesite	Burn Standard Co. Ltd. (Indian Government, 100%)	Salem, Tamil Nadu	150
Do.	Dalmia Magnesite Corp.	do.	150
Do.	Tamil Nadu Magnesite Ltd. (Tamil Nadu State government, 100%)	do.	150
Manganese ore ²	Manganese Ore India Ltd. (Indian Government, 100%)	Adilabad, Andhra Pradesh	NA
Do.	Falechand Marsingdas	Andhra Pradesh	NA
Do.	Manganese Ore India Ltd. (Indian Government, 100%)	Balaghat, Madhya Pradesh	NA
Do.	J.A. Trivedi Bros.	do.	NA
Do.	Sandur Manganese and Iron Ores Ltd.	Bellary, Karnataka	NA
Do.	Manganese Ore India Ltd. (Indian Government, 100%)	Bhandara, Maharashtra	NA
Do.	Eastern Mining Co.	North Kanara, Karnataka	NA
Do.	Mysore Minerals Ltd.	do.	NA
Do.	Manganese Ore India Ltd. (Indian Government, 100%)	Keonjhar, Orissa	NA
Do.	Mangilah, Rungta (Pvt.) Ltd.	do.	NA
Do.	Orissa Mining Corp. Ltd.	do.	NA
Do.	Rungta Mines (Pvt.) Ltd.	do.	NA
Do.	Serajuddin & Co.	do.	NA
Do.	S. Lall & Co.	do.	NA
Do.	Tata Iron and Steel Co. Ltd.	do.	NA
Do.	Orissa Mineral Development Co. Ltd.	Koraput, Orissa	NA
Do.	Orissa Mining Corp. Ltd.	do.	NA

TABLE 2—Continued INDIA: STRUCTURE OF THE MINERAL INDUSTRY IN 2007

(Thousand metric tons unless otherwise specified)

				Annual
Com	modity	Major operating companies and major equity owners	Location of main facilities	capacitye
Manganese ore ² —0	Continued	Mysore Minerals Ltd.	Shimoga, Karnataka	NA
Do.		Aryan Mining & Trading Corp.	Sundargarh, Orissa	NA
Do.		Orissa Manganese & Minerals (Pvt.) Ltd.	do.	NA
Do.		Tata Iron and Steel Co. Ltd.	do.	NA
Do.		R.B.S. Shreeram Durga Prasad and Falechand Marsingdas	Vizianagaram, Andhra Pradesh	NA
Mica	metric tons	Micafab India Pvt. Ltd.	Sydapuram Mandal, Andhra Pradesh	4,500
Do.	do.	Premier Mica Co.	Rjupalem, Andhra Pradesh	200
Petroleum, refined	thousand 42-gallon	Cochin Refineries Ltd. (a subsidiary of Oil and Natural Gas Corp.,	Ambalamugal Refinery, Kerala	93,000
products	barrels per day	Indian Government, 55%, and private interests, 45%)		
Do.	do.	Indian Oil Corp. (a subsidiary of Oil and Natural Gas Corp., Indian	Barauni Refinery, Bihar	66,000
		Government, 91%, and private interests, 9%)		
Do.	do.	Bongaigaon Refinery and Petrochemicals Ltd. (a subsidiary of Oil	Bongaigaon Refinery, Assam	27,000
		and Natural Gas Corp., Indian Government, 100%)		
Do.	do.	Indian Oil Corp. (a subsidiary of Oil and Natural Gas Corp., Indian	Digboi Refinery, Assam	12,000
		Government, 91%, and private interests, 9%)		
Do.	do.	do.	Guwahati Refinery, Assam	20,000
Do.	do.	do.	Haldia Refinery, West Bengal	61,000
Do.	do.	do.	Koyali Refinery, Gujarat	185,000
Do.	do.	Madras Refineries Ltd. (a subsidiary of Oil and Natural Gas Corp.,	Madras Refinery, Tamil Nadu	131,000
		Indian Government, 52%, and private interests, 48%)		
Do.	do.	Bharat Petroleum Corp. Ltd. (a subsidiary of Oil and Natural Gas	Mahul Refinery, Mumbai, Maharashtra	135,000
		Corp., Indian Government, 67%, and private interests, 33%)		
Do.	do.	Industan Petroleum Corp. Ltd. (a subsidiary of Oil and Natural Gas	do.	110,000
		Corp., Indian Government, 51%, and private interests, 49%)		
Do.	do.	Essar Oil Ltd.	Vadinar Refinery, Gujarat	240,000
Do.	do.	do.	Visakhapatnam Refinery, Andhra	90,000
			Pradesh	
Do.	do.	Indian Oil Corp. (a subsidiary of Oil and Natural Gas Corp., Indian	Mathura Refinery, Uttar Pradesh	156,000
		Government, 91%, and private interests, 9%)		
Do.	do.	do.	Panipat Refinery, Haryana	240,000
Phosphate rock ³		Rajasthan State Mineral Development Corp. Ltd. (Rajasthan State	Badgaon, Dakankotra, Kanpur,	NA
		government, 100%)	Kharbaria-ka-Guda, and Sallopat	
			Mines, Rajasthan	
Do.		Pyrites Phosphates and Chemicals Ltd.	Durmala and Maldeota underground	NA
			mines, Uttar Pradesh	
Do.		Madhya Pradesh State Mining Corp. Ltd. (Madhya Pradesh State	Hirapur and Khatamba Mines,	NA
		government, 100%)	Jharkhand	
Do.		Rajasthan State Mines and Minerals Ltd. (Rajasthan State	Jhamarkotra Mine, Rajasthan	NA
		government, 100%)		
Do.		Hindustan Zinc Ltd. (Sterlite Opportunities and Ventures Ltd.,	Maton Mine, Rajasthan	NA
		64.9%, and Indian Government, 29.5%)		
Zinc		Binani Zinc Ltd.	Binanipuram Smelter, Kerala	38
Do.		Hindustan Zinc Ltd. (Sterlite Opportunities and Ventures Ltd.,	Chanderiya Smelter, Rajasthan	340
Do		64.9%, and Indian Government, 29.5%)	Dahari Smaltar Daisathan	70
<u>D0.</u>		do.	Visakhanatnam (Vizag) Smaltar	18
D0.		uv.	Andhra Pradesh	54

^eEstimated. Do., do. Ditto. NA Not available.

¹Scheduled startup is delayed to 2007 or later.

²Capacity of clusters of surface mines varies extremely, depending on demand. Estimated total capacity is 1.8 million metric tons per year. ³Estimated total phosphate rock capacity is 1.2 million metric tons per year.

TABLE 3

INDIA: ESTIMATED RESERVES OF MAJOR MINERAL COMMODITIES FOR 2007

(Thousand metric tons unless otherwise specified)

Commodity		Reserves
Barite		39,000
Bauxite		524,000
Chromite (45% Cr ₂ O ₃)		21,000
Coal:		
Bituminous		93,000,000
Lignite		36,000,000
Copper, in ore		290,000
Gold, in metal	kilograms	59,000
Graphite		4,800
Ilmenite and rutile		488,000
Iron, in ore		6,300,000
Kyanite and sillimanite		16,400
Lead and zinc, in ore		101,000,000
Limestone		12,000,000
Magnesite		123,000
Manganese, in ore		104,000
Phosphate rock		75,000
Talc and pyrophyllite		142,000
Zircon		28,000

Source: Indian Minerals Yearbook 2006, Indian Burau of Mines.