

RAW MATERIALS

IRON ORE

RESERVES OF IRON ORE

As per the National Mineral Inventory prepared by Indian Bureau of Mines, Nagpur, the total recoverable reserves of haematite ores in the country, as on 1.4.2000, are placed at 9,919 million tonnes and that of magnetite ores 3,516 million tonnes. The reserves of haematite ore are mainly located in the states of Orissa, Jharkhand, Chhattisgarh, Karnataka, Goa, Maharashtra, Andhra Pradesh, Rajasthan and Bihar. The grade-wise reserves of +65% Fe (lumps) are about 834 million tonnes, 62% to 65% Fe are 2383 million tonnes and the rest below 62% Fe. The reserves of high-grade fines are estimated to be 129 million tonnes and that of medium grade fines are 2251 million tonnes. The fines of low grade are placed at 123 million tonnes. The Iron ore lumps and fines (high grade, medium grade, low grade), unclassified, blue dust etc.. have also been estimated as balance reserves. The reserves of metallurgical grade magnetite are placed at 1,441 million tonnes as against 2,061 million tonnes in unclassified grade. The rest of the magnetite reserves are of local washery, foundry and other grades. These magnetite reserves are mainly estimated in the states of Karnataka, Andhra Pradesh, Goa, Kerala, Jharkhand, Assam, Tamil Nadu, Maharashtra and Rajasthan.

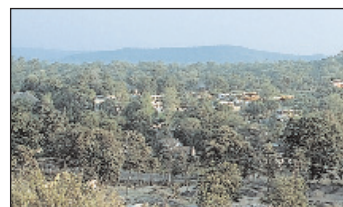
PRODUCTION AND DESPATCHES

Production of Iron Ore (including concentrates) during the year 2004-05 is estimated at 140.2 million tonnes as against 120.6 tonnes in the previous year. State-wise production figures indicate that Karnataka would continue to be the leading producing State accounting for 382 million tonnes (27.2%) of the total production during 2004-05 followed by Orissa with 37.8 million tonnes (26.9), Chhattisgarh with 24.83 million tonnes (17.7%), Goa with 20.3 million tonnes (14.5%) and Jharkhand d with 16.0 million tonnes (11.4%). The remaining about 2% of total production would be from Andhra Pradesh, Madhya Pradesh, Maharashtra, and Rajasthan. Despatches of Ore (including concentrates) for 2004-05 are estimated at 136.2 million tonnes. The despatches of iron ore for internal consumption and exports would be 79.6 million tonnes and 56.6 million tonnes respectively.

Production and despatches of Iron Ore from 2002-03 to 2004-05 are given below:

Year/Period	Production		Despatches		
	Quantity (MT)	Value (Rs. in Crores)	Total (MT)	For Internal Consumption (MT)	For Exports (MT)
2002-2003	99.1	2964.86	102.6	56.6	46.0
2003-2004(P)	120.6	3698.74	120.4	71.6	48.8
2004-2005(E)	140.2	5379.56	136.2	79.6	56.6

(P) Provisional (E) Estimated (MT) Million Tonnes



A Panoramic View of Dongri Buzurg Mine



Integrated Mineral Beneficiation Plant Dongri Buzurg Mine

MANGANESE ORE

RESERVES : As per the National Mineral Inventory as on 1.4.2000, the recoverable reserves of manganese ore are placed at 191 million tonnes. The major reserves in the country are of blast furnace grade. The reserves of ferro-manganese grade are very ltd. to about 11% of the total reserves.

PRODUCTION AND DESPATCHES

Production of Manganese ore during 2004-2005 is estimated at 2.02 million tonnes as compared to 1.74 million tonnes of the previous year. Orissa, Maharashtra, Madhya Pradesh and Karnataka are the principal producing states together accounting for 96% of the total production of Manganese ore during the period of 2004-2005.

Details of production and despatches of Manganese Ore from the year 2002-2003 to 2004-2005 are given below:

(Rs in crore)					
Year/Period	Production		Despatches		
	Quantity ('000 t)	Value (Rs.Crores)	Total ('000 t)	For Internal Consumption ('000 t)	For Exports ('000 t)
2002-2003	1,680	239.10	1,580	1,460	120
2003-2004(P)	1,740	256.35	1,750	1,530	220
2004-2005(E)	2,020	333.28	1,970	1,690	280

(P) Provisional (E) Estimated

Source: Indian Bureau of Mines, Nagpur

CHROMITE ORE

RESERVES: As per the National Mineral Inventory as on 1.4.2000, the total recoverable reserves of chromite ore are estimated at over 97 million tonnes of which 97% reserves are confined to Orissa state.

PRODUCTION AND DESPATCHES

Production of Chromite in 2004-2005 is estimated at 32.66 lakh tonnes as against 31.99 lakh tonnes in 2003-2004. Orissa continues to be the major producing state accounting for 32.33 lakh tonnes (99%) during 2004-05.

Production and despatches of Chromite from the year 2002-03 to 2004-2005 are given below :

(Rs in crore)					
Year/Period	Production		Despatches		
	Quantity ('000 t)	Value (Rs.Crores)	Total ('000 t)	For Internal Consumption ('000 t)	For Exports ('000 t)
2002-2003	3068	467.25	2,275	1,083	1,192
2003-2004(P)	3199	470.93	2,697	1,616	1,081
2004-2005(E)	3260	490.03	2,358	1,404	954

FERRO ALLOYS

INTRODUCTION

Ferro Alloy Industry has an annual capacity for producing 2.2 million tonnes. With a present working capacity of around 1.8 million tones, the production of Ferro Alloys is 1.2 million tones per annum.

The Industry needs the following raw materials:

- i) Power for melting the charge mix.
- ii) Low Ash (0.15% max.) and Low Phos (0.0166%P) Metallurgical Coke as reluctant, to reduce the mineral ores to metallic alloys.
- iii) Mineral Ores like Chromite, Manganese and Quartzite.
- iv) Fluxes

Statement showing production and exports of ferro alloys during 2003-04 and 2004-05 (April- December 2004).

Quantity in Metric Tonnes			
	2003-04		2004- 05 (Estimated) (April-Dec. 2004)
(A)Bulk Ferro Alloys	Production	Export	Production
HC Ferro Manganese	232,327	11,467	161,070
MC Ferro Manganese	9,287	0	8,973
LC Ferro Manganese	6,774	0	4,080
Silico Manganese	380,316	62,131	329,550
MC Silico Manganese	0	0	8,406
MC Silico Manganese	0	0	3,083
Ferro Silicon	68,844	1,016	72,678
HC Ferro Chrome/Charge Chrome	525,824	177,628	430,886
Sub Total : (A)	1,223,372	252,242	1,018,726
Value of Exports (A) (Rs in Crores)		682.1	
(B)NOBLE FERRO ALLOYS			
Ferro Molybdenum	2,949	0	2,048
Ferro Vanadium	769	0	783
Ferro Tungsten	76	0	50
Ferro Silicon Magnesium	6,289	1,530	4,090
Ferro Aluminum	5,169	0	4,500
Ferro Silico Zirconium	40	0	30
Ferro Titanium	252	0	250
Ferro Boron	50	0	45
Sub : Total : (B)	15,594	1,530	11,796
Value of Exports (B) (Rs in Crores)		5.1	
GRAND TOTAL (A+B)	1,238,966	253,772	1,030,522
VALUE OF EXPORTS (A+B) (Rs in Crores)		6,872	

* Source: Indian Ferro Alloys Producers' Association