

RAW MATERIALS

IRON ORE

Reserves

As per the survey conducted by the Indian Bureau of Mines (IBM) in April, 2000, India had 9919 million tonnes of recoverable reserves of hematite ore and 3516 million tonnes of magnetite ore. Zone A comprising of Bihar, Jharkhand and Orissa is the largest hematite ore bearing zone in the country, consisting mainly of high grade (iron content above 64%), medium grade (iron content between 65% and 67%) and low grade ore (iron content 64% and below). Orissa has the largest quantity of high grade and medium grade ore reserves in the country. Karnataka has the highest reserves of magnetite ore followed by Andhra Pradesh and Goa.

Production and Despatches:

Production of Iron Ore (including concentrates) during the year 2003-04 is estimated at 100.6 million tonnes as against 97.0 million tonnes in the previous year. Statewise production figures indicate that Karnataka continues to be the leading producing State accounting for 24.25 million tonnes (25.1%) of the total production during 2003-04 followed by Orissa with 23.76 million tonnes (23.6%), Chhatisgarh with 20.04 million tonnes (19.9%), Goa with 17.0 million tonnes (16.9%) and Jharkhand with 13.61 million tonnes (13.5%), The remaining production is from Andhra Pradesh, Madhya Pradesh, Maharashtra, and Rajasthan. Despatches of Iron Ore (including concentrates) for 2003-04 are estimated at 101.8 million tonnes.

Production and despatches of Iron Ore from 2001-02 to 2003-04 are given below:

Year/Period	Production		Despatches		
	Qty. (MT)	Value (Rs.Crore)	Total (MT)	For Internal Consumption (MT)	For Exports (MT)
2001-02	86.2	2496.92	87.6	49.8	37.8
2002-03(P)	97.0	2710.45	97.1	57.2	39.9
2003-04(E)	100.6	28.06.91	101.8	61.3	40.5

(P)- Provisional

MT - Million Tonnes

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 grades are limited to about 11% of the total reserves.

Production and Despatches :

Production of manganese ore during 2003-2004 (upto 31.12.2003) is estimated at 1.22 million tonnes as compared to 1.19 million tonnes during the corresponding period of the previous year. Orissa, Maharashtra, Madhya Pradesh and Karnataka are the principal producing states, together accounting for 95% of the total production of Manganese ore during the period of April-Dec., 2003-2004.

Details of production and despatches of Manganese Ore from the year 2001-02 to 2003-2004 are given below :-

Year/Period	Production			Despatches	
	Qty('000T)	Value (Rs. Crores)	Total('000 T)	For Consumption ('000 T)	Internal Exports ('000 T)
2001-2002	1,550	213.24	1,440	1240	200
2002-03(P)	1,660	245.52	1,500	1290	210
2003-04 upto Dec'03(E)	1,220	178.92	1,080	940	140

(P) - Provisional (E) - Estimated

Estimated {comprises the recorded figures upto October, 2003 and estimated for November and December, 2003}

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 2003-2004 (upto 31.12.2003) is estimated at 23.62 lakh tonnes as against 21.26 lakh tonnes in 2002-2003 (upto 31.12.2002). Orissa continues to be the major chromite producing State accounting for 23.38 lakh tonnes (99%) upto 31.12.2003.

Production and despatches of Chromite from the year 2001-02 to 2003-2004 are given below :

Year/Period	Production			Despatches	
	Qty('000T)	Value (Rs. Crores)	Total('000 T)	For Internal Consumption ('000 T)	For Exports ('000 T)
2001-2002	1549	266.04	1682	921	761
2002-03(P)	3066	497.25	2186	1059	1127
2003-04 upto Dec'03(E)	2362	385.07	2068	849	1219

P - Provisional E - Estimated

Estimated {comprises the recorded figures upto October, 2003 and estimated for November and December, 2003}

Source : Indian Bureau of Mines, Nagpur.

FERRO ALLOYS

Introduction :

The Ferro Alloys Industry has an annual capacity of producing 2.0 million tonnes. The present working capacity is around 1.4 million tonnes and production almost 1 million tonnes.

The Industry needs the following raw materials :

- i. Power for melting the charge mix.
- ii. Low Ash (15 % max.) Low Phos (<0.0166%P) Metallurgical Coke as reductant, 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 2002-03 and 2003-04
Quantity in Metric Tonnes
Value in Rs. In Millions

	2003-04 (April-Dec.) Production (Estimated)	2003-03 Production Exports	
(A) BULK FERRO ALLOYS			
HC Ferro Manganese	181,716	225,137	31,003
MC Ferro Manganese	4,665	5,339	0
LC Ferro Manganese	5,450	6,200	0
Silico Manganese	244,947	304,212	59,539
Ferro Silicon	65,511	81,995	275
HC Ferro Chrome/Charge	305,168	379,328	90,710
Chrome			
LC Ferro Chrome	1,200	1,200	0
Sub Total : (A)	808,657	1,003,371	181,527
Value of Exports (A)			3,442
(B) NOBLE FERRO ALLOYS			
Ferro Molybdenum	2,220	3,114	0
Ferro Vanadium	770	914	0
Ferro Tungsten	150	159	0
Ferro Silicon Magnesium	5,900	6,369	1,078

Ferro Aluminum	2,500	2,000	0
Ferro Silico Zirconium	50	50	0
Ferro Titanium	200	157	0
Sub : Total : (B)	11,790	12,763	1,078
Value of Exports (B)			38
GRAND TOTAL (A+B)	820,447	1,016,134	182,605
VALUE OF EXPORTS (A+B)			3,480

Source : Indian Ferro Alloys Producers' Association, Mumbai