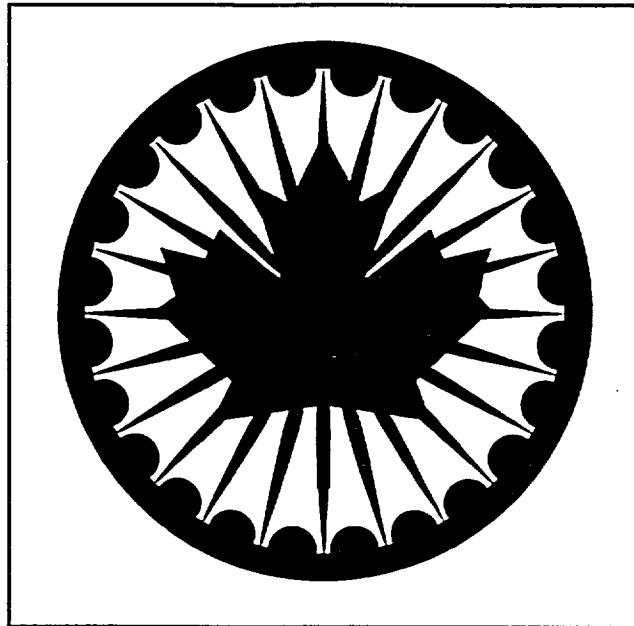


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## FOCUS INDIA

### THE INDIAN MINING INDUSTRY:

COMPANY/ORGANIZATIONAL PROFILES OF  
THE INDIAN MINING, MACHINERY & EQUIPMENT  
MANUFACTURING, MINERAL EXPLORATION,  
GOVERNMENT AGENCIES AND SERVICE SECTORS



### L'INDUSTRIE MINIÈRE EN INDE :

PROFILES D'ENTREPRISE DE L'INDUSTRIE MINIÈRE EN INDE,  
MACHINERIE ET MATÉRIEL INDUSTRIEL,  
L'EXPLORATION DES RESSOURCES,  
SOCIÉTÉ D'ÉTAT ET SECTEUR DE SERVICE

JULY 1996

1996 JUILLET

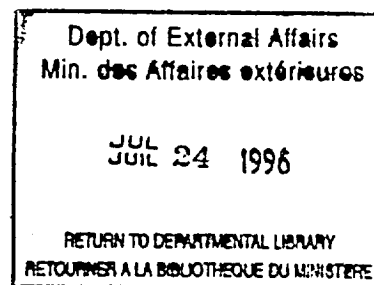
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Further information can be obtained by contacting Canadian trade offices in India. / On peut obtenir plus de précisions auprès des bureaux commerciaux du Canada en Inde, à savoir.

Commercial Division  
Canadian High Commission  
7/8 Shantipath, Chanakyapuri  
New Delhi 110 021 India  
Tel: 91-11-687-6500 Fax: 91-11-687-5387  
eMail: delhi.td@delhi01.gc.ca

Consulate of Canada  
4th Floor, 41/42 Maker Chamber VI  
Jammalal Bajaj Marg  
Bombay 400 021 India  
Tel: 91-22-287-5514 Fax: 91-22-287-5514  
eMail: consulate.canada@coc.sprintrpg.sprint.com  
(for the states of Maharashtra, Gujarat, Goa, Karnataka)



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Prepared for  
THE CANADIAN HIGH COMMISSION, NEW DELHI  
&  
DEPARTMENT OF FOREIGN AFFAIRS AND INTERNATIONAL TRADE  
By  
Sarasuba Entrepreneurs Private Limited, Delhi - 110 092

Document rédigé pour le compte du  
HAUT-COMMISSARIAT DU CANADA À NEW DELHI (INDE)  
&  
MINISTÈRE DES AFFAIRES ÉTRANGÈRES ET DU COMMERCE INTERNATIONAL  
Par  
Sarasuba Entrepreneurs Private Limited, Delhi - 110 092

43 276 974

**MANUFACTURING COMPANIES**

**LES ENTREPRISES INDUSTRIELLES**

## ASEA BROWN BOVERI LIMITED

Plot Nos. 5&6, II Phase, Peenya Industrial Area, Bangalore 560 058

Tel: 080-8395181 - 84, Fax: 080-8396537

<b>Chief Executive Officer:</b>	Mr. K.N. Shenoy, Executive Chairman; A.K. Thiagarajan. Managing Director
<b>Ownership:</b>	Private, partly-owned subsidiary of ABB Asea Brown Boveri Ltd., Zurich (Switzerland)
<b>Scale of Operation:</b>	Large
<b>Products/Services:</b>	ABB Mine hoists integrate the mechanical equipment and the drive and control systems offering the benefits of single source supplier.  500 installations in more than 30 countries. Microprocessor-based control systems for fast and accurate positioning of the conveyance minimizes the hoisting cycle time and boosts productivity.  Safety functions duplicated in two independent control systems  High-powered Advant Stations provide the operator with full, graphic, high resolution displays of time critical information in dynamic format.
<b>Turnover:</b>	Rs. 6,435 million in 1994

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## ANDREW YULE & CO LTD

8 Clive Row, Calcutta-700 001 West Bengal

Tel. 033- 2428210/2428550/2422421, Fax. 033-2422943/2425477

<b>Chief Executive Officer:</b>	Mr. Sujit Chakravorti, Chairman & Managing Director
<b>Year of Establishment:</b>	1919
<b>Ownership:</b>	Government of India
<b>Scale of Operation:</b>	Medium
<b>Turnover:</b>	Rs. 2073.1 million
<b>Products/Services:</b>	Industrial fans, blowers, Tea processing machinery, core lamination products and system related to air pollution control, HT & LT electrical equipment,
<b>Foreign Collaboration:</b>	Beth GmbH, Germany, BTR Belting Ltd, UK, Daihen Corporation Ltd, Japan
<b>Employees</b>	17000

## **ATLAS COPCO INDIA LTD**

Mahatma Gandhi Memorial Building, Netaji Subhash Road, Bombay-400 002 Maharashtra  
Tel. 022-2015623, Fax. 022-2064046

**Chief Executive Officer:** Mr. Jan Henriksen, Managing Director  
**Year of Establishment:** 1960  
**Ownership:** Private sector  
**Scale of Operation:** Large  
**Products/Services:** Air and gas compressors, rock drills and pusher legs lubricators for rock drills and grinders for rock drill equipment, aqua rigs, mechanised drilling equipment, couplings, rock drilling tools.  
**Turnover:** Rs. 694.6 million  
**Foreign Collaboration:** The Atlas Copco Worldwide Group, Stockholm, Sweden  
**Employees:** 620

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## **BHARAT BHARI UDYOG NIGAM LTD**

26, Raja Santosh Road, Calcutta-700 027 West Bengal  
Tel. 033-4795524, Fax. 033-479-7046

**Chief Executive Officer:** Mr. A K Mohapatra, Chairman (Actg)  
**Year of Establishment:** 1986  
**Ownership:** Government of India  
**Scale of Operation:** Large  
**Products/Services:** Mining equipment etc.  
**Turnover:** Rs. 3427.4 million  
**Foreign Collaboration:** Eichhoff, Germany; Kone Corpn, Finland  
**Employees:** 26403

## BHARAT EARTH MOVERS LTD.

BEML Soudha, 23/1, SR Nagar, Bangalore 560 027

Phone : 91-080-224141, 237897 (14 Lines), Fax : 91-080-226883

<b>Chief Executive Officer :</b>	Mr. T.V.S. Sastry, Chairman & Managing Director
<b>Year of Establishment :</b>	1964
<b>Ownership:</b>	Government of India
<b>Scale of operation:</b>	Large
<b>Annual Turnover :</b>	Rs. 9489 millions in production & Rs. 9006 millions in Sales
<b>Value of Exports :</b>	Rs. 3500 millions
<b>Products Exported:</b>	Bulldozers, Hydraulic Excavators, Wheel Loaders, Rear Dump Trucks, Rail Coaches
<b>Sources of Technology:</b>	Through Collaborations & through in-house development
<b>Foreign Collaboration:</b>	M/s. Komatsu, Japan; M/s. Dressers, USA; M/s Ompinol, Chechoslovakia; M/s Voist Alpine, Austria; M/s. IGM, M/s Mutsui Miike, Bulgaria
<b>Employees :</b>	16,000
<b>Remarks:</b>	<p>Bharat Earth Movers Ltd. (BEML), a public sector company, is an Asian Corporate giant engaged in designing, developing and manufacturing a variety of sophisticated bulk material handling equipments and systems serving the core sections of economy.</p> <p>BEML today is a leader in earthmover industry commanding over 70% market share. Some 30,000 of its equipments are productively deployed in India and other countries around the world.</p> <p>BEML has established three modernised production units with hi-tech facilities, a composite R&amp;D Centre with laboratories in fluid power engineering, material science, structural engineering and powerline testing with the state-of-the-art facilities.</p> <p>BEML offers efficient marketing support to its customers through its wide network of Offices at all major project sites in addition to offering application engineering services to help customers utilise equipments to their best advantage.</p>

## **BHARAT FRITZ WERNER LTD**

Peenya Industrial Area, Yeswanthapur P.O. Bangalore-560 022  
Tel. 080-8395221/8395745, Fax. 080-8394816

**Chief Executive Officer:** Mr. S.N. Mishra, President & Managing Director  
**Year of Establishment:** 1961  
**Ownership:** Private sector  
**Scale of Operation:** Medium  
**Products/Services:** Manufacture of CNC machining centres, CNC boring & milling machines etc.  
**Turnover:** Rs. 264.882 million  
**Foreign Collaboration:** Fritz Werner Werkzeug-Maschinen GmbH, Berlin  
**Employees:** 756

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## **BURN STANDARD CO LTD**

10 C Hungerford Street, Calcutta-700 017 West Bengal  
Tel. 033-2471772/2471067/2471762, Fax. 033-2472788

**Chief Executive Officer:** Mr. A.K. Mahapatra, Chairman  
**Year of Establishment:** 1976  
**Ownership:** Government of India  
**Scale of Operation:** Large  
**Products/Services:** Mining accessories and equipment  
**Turnover:** Rs. 1669.6 million  
**Employees:** 11911

## **CARBORUNDUM UNIVERSAL LTD**

"Tiam House", 28 Rajaji Road, PB No. 1677, Madras 600 001  
Tel. 044-511652/5223365/5225116, Fax: 044-510378

**Chief Executive Officer:** Mr. A.M.M. Arunachalam, Chairman  
**Year of Establishment:** 1954  
**Ownership:** Private sector  
**Scale of Operation:** Large  
**Products/Services:** Electrominerals - White aloxite, brown aloxite, silicon carbide grains, calcined bauxite  
**Turnover:** Rs. 1370 million  
**Employees:** 2147

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## **CROMPTON GREAVES LTD**

1 Dr V B Gandhi Marg, Bombay-400 023 Maharashtra  
Tel. 022-277525/276610, Fax. 022-2028025/2625814

**Chief Executive Officer:** Mr. K.K. Nohria, Managing Director  
**Year of Establishment:** 1937  
**Ownership:** Private sector  
**Scale of Operation:** Large  
**Products/Services:** Dry and mining type transformers  
**Turnover:** Rs. 8855.8 million  
**Foreign Collaboration:** Nei Reyrolle Ltd. UK  
**Employees:** 10729



## **EIMCO ELECON (INDIA) LTD**

Anand Sojitra Road  
Vallabh Vidyanagar 388 120, Gujarat  
Tel : (02692) 30502, 30902, Fax : (02692) 30067

**Chief Executive Officer :** Mr. C.T. Dave, Executive Director  
**Year of Establishment:** 1974  
**Scale of Operation :** Large  
**Industrial Classification :** Mining Machinery  
**Products Manufactured:** Load Haul Dumper, Side Dump Loader, Rocker Shovel Loader, Air Motors, Dump Truck, Auger Cum Drill & Roof Bolter  
**Products Exported :** Rocker Shovel Loader, Air Motor, Joint Ventures: EIMCO  
**Annual Turnover :** Rs 500 million  
**Foreign Collaboration :** TAMROCK, Finland  
**Employees :** 280

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## **ELECON ENGG. CO. LTD**

Anand Sojura Road  
Vallabh Vidyanagar - 388 120, Gujarat  
Tel : (02692) 30016, 30222, Fax : (02692) 30120, 31277, Telex : 0172-210 ELCN-IN

**Chief Executive Officer :** Mr. B.I. Patel, Chairman & Managing Director  
**Year of Establishment :** 1961  
**Ownership:** Private sector  
**Scale of Operation :** Large  
**Industrial Classification :** Material Handling Equipment  
**Products Manufactured:** Material Handling Equipment & Power Transmission Equipments, Bridge type reclaimer, NU-gears, Wagon Tipples, Barrel type Blender, Crawler Mounted trippers, Helical gears. Striker Reclaimer, Reclaimer, Crushers, Couplings, Scraper Reclaimer, conveyors, Pulleys, Special gears.  
**Products Exported:** Coal Handling Plants for Power Station/Lignite Mine, Thailand  
**Annual Turnover :** Rs. 1269 million  
**Employees :** 3000

## HEAVY ENGINEERING CORPORATION LIMITED

Ranchi-834004, Bihar

Tel: (0651)408571, Fax: (0651) 408571, Telex: 0625-204

<b>Chief Executive Officer:</b>	Mr. A.K. Misra, Chairman & Managing Director
<b>Year of Establishment:</b>	1959-60
<b>Ownership:</b>	Government of India
<b>Scale of Operation:</b>	Large
<b>Product Range:</b>	Manufacturer of mining equipment, such as excavators, overburden drills; wagon tippers; electric overhead travelling cranes, crushing & grinding equipment; steel plant equipment such as rolling stock items and coal and other mineral processing plants
<b>R&amp;D Facilities:</b>	In-house
<b>Turn over:</b>	Rs. Two billion turnover in 1994-95
<b>Foreign collaboration:</b>	Former USSR for heavy machine building plant; Czechoslovakia for foundry forging plants; Co. Germany for steel plant equipment; Japan for Heavy machines
<b>Employment:</b>	12,500

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## HINDUSTAN DORR-OLIVER LIMITED

Dorr-Oliver House, Chakala, Andheri (East), Bombay 400 099

Tel. (022) 6325541, Fax: (022) 6365659

<b>Chief Executive Officer:</b>	Mr. M.R. Chhabria, Chairman; Mr. G.K. Apte, Managing Director
<b>Year of Establishment:</b>	1912 (In 1987 became par of the Chhabria Group)
<b>Ownership:</b>	Private Sector
<b>Scale of Operation:</b>	Large
<b>Products/Services:</b>	Equipment used for key applications like classification of bauxite/hydrate, desanding of digested red mud, red mud settlers, washers, and filtration aluminate clarification, hydrate thickening/filtration, cryolite recovery, lime preparation, slurry mixing/pumping, etc.. Environmental engineering, Mineral beneficiation
<b>Turnover:</b>	Rs. 625.5 million

## HINDUSTAN MOTORS LIMITED

Earthmoving Equipment Division  
Menallathur-602 004, Tiruvallur, Tamil Nadu  
Tel : 0411-6 202, 0411-6 432

**Chief Executive Officer :** Mr. A. Sankaranarayanan, Executive Vice President  
**Year of Establishment :** 1969  
**Scale of Operation :** Large  
**Products Manufactured**  
Dumpers : 25, 35, 36, 40, 50, 85 ton capacity  
Loaders : With bucket capacities from 1.24 to 8 cu.mtr.  
Crawler Tractor : 165 Flywheel Horse Power  
Hyd. Excavator : 20 ton class  
**Products Exported :** Loaders, dumpers, Spare Parts UK, USA, France, Jordan, Mauritius, Bangladesh, Iraq  
**Investment :** Rs. 15 Crores  
**Annual Turnover :** Rs. 200 Crores  
**Foreign Collaboration :** Caterpillar Inc., USA  
**Employees :** 1600

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## INGERSOLL RAND (I) LTD

Rhone-Poulenc House, S K Ahire Marg, Bombay-400 025  
Tel. 022-4936765, Fax. 022-4945051

**Chief Executive Officer:** Mr. A R Nagarwadia, Chairman & President  
**Year of Establishment:** 1921  
**Ownership:** Private sector  
**Products/Services:** Mining & Waterwell drilling equipment  
**Turnover:** Rs. 2.038 million  
**Foreign Collaboration:** Subsidiary of Ingersoll-Rand Company, USA  
**Employees:** 1396

## JESSOP & CO. LTD.

63, Netaji Subhas Road, Calcutta-700 001  
Tel.(033) 255041 - 49, Fax: (033) 2431610

**Chief Executive Officer :** Mr. A.K. Sur, Managing Director

**Ownership:** Government of India

**Scale of Operation :** Large

**Product/Services:** Complete Longwall Package Leader and suppliers manufacturer of Powered Roof supports, Hydraulic Props, Yielding Legs, Conveyor Pusher Rams, Face Sprag/Side Shield and Base Lift Rams, Power Pack Tanks, Armoured Conveyors, Underground Coalsizers, Drum Shearers, Aerial Ropeways.  
Comprehensive pre and post sales services in the areas on System Engineering, equipment and site selection, installation/commissioning and maintenance.

**Annual Turnover :** Rs. 105 Crores (91-92)

**Foreign Collaboration :** Eichhoff, Germany

**Employees :** 6500

**Remarks:** A public sector company manufacturing material handling machineries and road building machineries, besides mining equipment, has undergone heavy losses

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## LARSEN & TOUBRO LTD

L&T House, Ballard Estate, P.O. Box 278, Bombay-400 001  
Tel. 022-2618181, Fax. 022-2620223

**Chief Executive Officer:** Mr. S D Kulkarni

**Year of Establishment:** 1946

**Ownership:** Private sector

**Scale of Operation:** Large

**Products/Services:** Earthmoving machinery, plant & equipment for core sector industries like power, oil & gas, chemical & petrochemical, cement, fertilizer, food processing, coal and other minerals, steel etc.

**Turnover:** Rs. 27880 million

**Foreign Collaboration:** T J Gundlach Machine Co., USA

**Employees:** 22000

## McNALLY BANGALORE INDUSTRIES LIMITED

P.O. Whitefield, Bangalore 560 066

Tel: 845-2596 (4 lines), Fax: (080) 8452764, Telex: 0845 8513 MBE IN

<b>Chief Executive Officer :</b>	Mr. T.R. Venkateswaran, Sr. Vice President
<b>Year of Establishment:</b>	1976
<b>Ownership:</b>	Private Sector, a wholly owned subsidiary of McNally Bharat Engg. Co. Ltd. and a member of the Williamson Magor group
<b>Scale of Operation:</b>	Medium
<b>Products/Services:</b>	Provides technology innovation in the field of Mineral beneficiation with latest equipment for slurry pumping, flotation, magnetic separation, metal detection, thickening & dewatering.
<b>Annual Turnover:</b>	Rs. 50 million
<b>Marketing Agents for:</b>	Eriez Magnetics of USA for Separation, Magnamation, Vibratory & Metal Detection Equipment; Outokumpu Mintec of Finland for Ceramec Capillary of Finland for Ceramec Capillary Filers; Kent of USA for Hydraulic and Pneumatic Rock breakers
<b>Foreign Collaboration:</b>	MBE-SALA Slurry Pumps, Sala of Sweden; MBE-Outokumpu Flotation Cells; Outokumpu of Finland, MBE-Supaflo High Rate & Conventional Thickeners: Supaflo of Australia

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## McNALLY BHARAT

44 Park Street (4th floor) Calcutta

Tel: 247-3479/5065, Fax: (033) 402086, Telex: 021-2041 & 7119

<b>Chief Executive Officer :</b>	Maj. Gen. (Retd) P.P. Subherwal, Managing Director
<b>Year of Establishment:</b>	1961
<b>Ownership:</b>	Private Sector
<b>Scale of Operation:</b>	Large
<b>Products/Services:</b>	Crushers, Screens, Feeders, Conveyors, Ball & Rod Mills, Wet Scrubbers, Rotary Kilns, Dryers, Coolers, Jigs, Heavy media cycloids, Pneumatic pumps, Cyclones, Classifiers etc. Indigenous process technology, Complete in-house Design & Engineering, Project Planning & Execution Services, Plant commissioning & trouble shooting services
<b>Annual Turnover:</b>	Rs. 600 million
<b>Foreign Collaboration:</b>	Outokumpu, Finland; Supaflo, Australia; Montan Engineering, Germany; Cominco, Canada
<b>Employees:</b>	1,008

## MINING AND ALLIED MACHINERY CORPORATION LTD.

Durgapur 713210 Dist. Burdwan, West Bengal

Tel: 5261-65, Telex: 0205-207

<b>Chief Executive Officer:</b>	Mr. P.K. Rohatgi, Chairman and Managing Director
<b>Year of Establishment:</b>	1965
<b>Ownership:</b>	Government of India
<b>Scale of Operation:</b>	Large
<b>Works/Facilities:</b>	(i) Durgapur-713210, Dist. Burdwan, West Bengal (ii) Regional workshop, 47 MIDC Estate, Nagpur 4400280
<b>Product/Services:</b>	Manufacturers of mining and allied machinery: (i) Mining equipment (ii) Bulk material handling systems (iii) Conveyors with associated structures (iv) Coal preparation and mineral dressing plants Produced only 6925 MT valued at Rs. 796 Million of various items in 1992- 93 against a capacity of 65,340 MT
<b>R&amp;D Facilities:</b>	In-house to absorb imported know-how, develop new products. Introduced side discharge loader recently
<b>Programs:</b>	Modernize and upgrade technology to improve economic viability. develop new product line such as side arm changer, 200 kW compact drive head, and optimising drum design for shearer
<b>Foreign collaboration:</b>	(i) Polish Kopex for coal preparation plant; (ii) Netherland's Stamicarbon for cyclone processes for coal treatment; Other countries: Former West Germany, UK and former USSR
<b>Employees:</b>	5682 (1993)
<b>Remarks:</b>	A sick unit, referred to Board for Industrial and Financial Reconstruction (BIFR) , a Government of India statutory body, for preparing a feasibility package for rehabilitation of the unit

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## MACNEILL ENGG LTD

34 & 34/1 Diamond Harbour Road, Calcutta-700 027

Tel. 033-493066, Fax. 033-497043

<b>Chief Executive Officer:</b>	Mr. S Chakraborty, Managing Director
<b>Year of Establishment:</b>	1990
<b>Ownership:</b>	Private (Williamson Magor Group)
<b>Products/Services:</b>	Materials handling equipment, electrical equipment for mining industry, etc.

## MAHINDRA ENGG & CHEMICAL PRODUCTS LTD

Engineering Division, 148 Bombay Pune Road, Pimpri Pune- 411 018

Tel. 0212-773577/773578, Fax. 0212-771286

**Chief Executive Officer:** Mr. Gurbir Singh, Managing Director  
**Year of Establishment:** 1954  
**Ownership:** Private sector  
**Scale of Operation:** Medium  
**Products/Services:** Chain based bucket elevators, conveyors and feeders  
**Turnover:** Rs. 244.43 million  
**Foreign Collaboration:** Tsubakimoto Bulks Systems Corpn, Japan  
**Employees:** 367

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## OTTO INDIA LTD

9 Camac Street, Calcutta-700 017

Tel. 033- 2426729/2421232/2423422, Fax. 033-2423654

**Chief Executive Officer:** Mr. T Bhaskaran, Managing Director  
**Year of Establishment:** 1959  
**Ownership:** Private sector (single largest shareholder : German collaborator)  
**Products/Services:** Turnkey contractors catering to steel industry e.g. Coal washery, Iron ore grinding, beneficiation and dewatering plants, Environmental Pollution Control, Material handling systems, Sand preparation plant for foundries, etc.  
**Turnover:** Rs. 535 million  
**Foreign Collaboration:** Thyssen Still Otto Anlagentechnik GmbH, Germany  
**Employees:** 920

## **SVEDALA INDUSTRI INDIA PVT. LTD.**

C/3/1 Vasant Vihar, New Delhi-110 057

Tel: : 011-6881659/605562, Fax : 011-6881745, Telex : 031-72449 SVED IN

**Chief Executive Officer :** Mr. Jan Sandberg, Chairman

**Year of Establishment :** 1992

**Scale of Operation :** Large

**Products/Services:** Product range includes:

A. Crushers/Crusher Parts, Feeders, Foundry Products, Washers, Wear Resistant Parts and Attachments, Screens, Screening Media, Noise/Dust Control Systems, Material Handling Hose systems, Pumps, Conveyor Belts, Conveyor Belt Accessories/Components, Compact and Paving Equipment, Concret Products.

B. Grinding, Mills, Mill Linings, Mineral Separation equipment, Pyro & Pelletizing Equipment etc.

C. Coal Preparation equipment, Blending/Stacking Reclaiming, Ash Handling equipment, Trucks, Cranes/Platforms, Tanks and Trailers, Loading Systems, Unloading systems, Self-unloading Ships-unloading ships and Fender Systems.

Svedala also provides software in the form of applications expertise, engineering services and continuous customer support.

**Annual Turnover :** Over US \$ 2 Billion

**Employees :** Over 10,000

**Branch Offices :** Calcutta, Mangalore

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## **SANDVIK ASIA LTD**

Bombay Poona Road, Dapodi, Pune-411 012

Tel. 0212- 776491/776494, Fax. 0212-779339

**Chief Executive Officer:** Mr. Wihelm Sebardt, Managing Director

**Year of Establishment:** 1960

**Scale of Operation:** Large

**Ownership:** Private sector

**Products/Services:** Rock drill steels, Extension drill steel equipment

**Turnover:** Rs. 688.85 million

**Foreign Collaboration:** AB Sandvik Coromant, Sweden

**Employees:** 1074



## **SIMPLEX ENGG & FOUNDRY WORKS PVT LTD**

1515 Hemkunt Tower, 98 Nehru Place, New Delhi-110 019

Tel. 011-6441342/6414846/6431347, Fax. 011-6466303

<b>Chief Executive Officer:</b>	Mr. H.B. Shah, Chairman
<b>Year of Establishment:</b>	1940
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Large
<b>Products/Services:</b>	Equipments for steel plant, power plant, mining, etc.
<b>Exports:</b>	20% of the total turnover earmarked for exports which includes steel plant equipments like cock over door, door frames, etc. quenching car, pusher car, sinter machiner, transfer car, grab bucket, slag pot, coal delivery car, forging and castings etc.
<b>Turnover:</b>	Rs. 3000 million
<b>Foreign Collaboration:</b>	Dragon Babbitless Ltd. France, Tyazhpromexport, Russia, China Metalurgical Import Export Corporation, China; Baoshan Iron & Steel Co. China; Dango Dienenthal, Germany; Nippon Steel Corporation, Japan, Pentag Manufacturing Co. Ltd, UK; Schalke Germany, Landers Maschinen Fabric, Germany; Sato Manufacturing Co. Ltd, Japan; Dosco UK; Maanshan Iron & Steel Design Institute, China; Linde A.G., Germany; SMS, Germany; Hitachi Zosen/Kawazaki, Japan
<b>Employees:</b>	2000

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## **SOUTHERN STRUCTURALS LTD**

No. 226 Kilpauk Garden Road, Kilpauk, Madras-600 010

Tel. 044-5324504/5324505, Fax. 044-5324609

<b>Chief Executive Officer:</b>	Mr. V. Madhavar Nair, Chairman & Managing Director
<b>Year of Establishment:</b>	1956
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Large
<b>Products/Services:</b>	Conveyor systems, Material handling systems, bucket wheel excavation etc.
<b>Turnover:</b>	Rs. 294.5 million
<b>Foreign Collaboration:</b>	O&K Germany, Ansaldo, Italy

## TATA ENGINEERING & LOCOMOTIVE CO LTD

Telco GMS Office P.O. Jamshedpur-831 010, Bihar  
Tel. 0657-310026, Fax. 0657-310229/310220

**Chief Executive Officer:** Mr. Ratan N Tata, Chairman  
**Year of Establishment:** 1945-46  
**Ownership:** Private sector  
**Scale of Operation:** Large  
**Products/Services:** Earth moving machinery, etc  
**Turnover:** Rs. 37041 million  
**Foreign Collaboration:** Hitachi Construction Machinery Co.  
**Employees:** 38965

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## TIL LTD

1 Taratala Road, Garden Reach, Calcutta-700 024  
Tel. 033-4793732/4793736/496497, Fax. 033-4792143

**Chief Executive Officer:** Mr. A Mazumdar, Chairman & Managing Director  
**Year of Establishment:** 1944  
**Ownership:** Private sector  
**Scale of Operation:** Medium  
**Products/Services:** Mobile cranes, Earthmoving equipment etc.  
**Turnover:** Rs. 1130 million  
**Foreign Collaboration:** Yute SL. Spain  
**Employees:** 875

## TRF LTD

11 Station Road, Burmamines, Jamshedpur-831 007 Bihar  
Tel. 0657-310313/310317, Fax. 0657-310075

**Chief Executive Officer:** Mr. S.A. Hasan, Managing Director  
**Year of Establishment:** 1962  
**Ownership:** Private sector  
**Products/Services:** Coal cutters, mine winders, wagon tippers, wagon loaders, belt & chain elevators, screw conveyors, apron feeders, mine car tippers  
**Turnover:** Rs. 1022.6 million  
**Employees:** 1399

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## USHA TELEHOIST LIMITED

33, C.R. Avenue, Calcutta-700 012  
Tel : 266716/264509, Fax : 033-2488234

**Chief Executive Officer :** Mr. M.K. Jhavar, Chairman and Managing Director  
**Year of Establishment :** 1965  
**Scale of Operation :** Medium  
**Investment :** Rs. 451.52 Millions  
**Products Manufactured:** Hydraulic Cylinders, Hydraulic Props, Hydraulic Tipping Gears, hydraulic power pack systems, high pressure jet pumps, gear pumps & motors, high pressure & steam jet cleaning machines, dumper placers, recovery equipment, chain conveyor pushers, hydraulic access platforms, hydraulic lift, under carriage parts, granite slabs/tiles  
**Annual Turnover :** Rs. 676.90 Millions  
**Foreign Collaboration:** Telehoist Ltd and Powered Access Ltd, UK  
Hydraulik Ring GmbH, LM Liftmaterial GmbH, Germany  
KG, paul Hammelmann Machinefabrik GmbH, Germany  
The Lantis Corporation USA  
**Branch Offices** Bangalore, Bombay, Chandigarh, Madras, New Delhi

## VULCAN ENGINEERS LTD

427 Unique Indl. Estate. Off Veer Savarkar Marg, Prabhadevi, Bombay-400 025  
Tel. 022-4304529/4659/3671, Fax. 022-4225814

<b>Chief Executive Officer:</b>	Mr. Mithu Malaney, Chairman & Managing Director
<b>Year of Establishment:</b>	1963
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Small
<b>Products/Services:</b>	Non electrical machinery, furnaces, kilns & plants for calcining/sintering of minerals
<b>Turnover:</b>	Rs. 222.334 million
<b>Foreign Collaboration:</b>	Davy International, EW Bowman RCE, Brckenbach, Mendheim, Mediatel
<b>Employees:</b>	210

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## WIDIA (INDIA) LTD

8/9th Mile Tumkur Road, Bangalore-560 073  
Tel. 080- 8394321, Fax. 080-8394708

<b>Chief Executive Officer:</b>	Mr. R Rajagopalan, Joint Managing Director
<b>Year of Establishment:</b>	1967
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Medium
<b>Products/Services:</b>	Cutting tools for engineering and mining
<b>Turnover:</b>	Rs. 1000 million
<b>Foreign Collaboration:</b>	Krupp, Germany
<b>Employees:</b>	1400

**MINING COMPANIES**

# BHARAT ALUMINIUM COMPANY LIMITED

Aluminium Sadan, Core - 6, SCOPE Office Complex

7, Lodhi Road, New Delhi - 110003

Tel: 4360091, 4360128, 4360129, 4360176, Fax: (11) 4360018

<b>Chief Executive Officer:</b>	Mr. Divakar Dev
<b>Year of Establishment:</b>	
<b>Ownership :</b>	Government of India
<b>Works/Facilities</b>	(i) Bauxite mines in Madhya Pradesh (M.P.) (ii) 100,000 tons smelter at Korba, M. P. (iii) 200,000 tons Alumina plant at Korba, via Champa, Dt. Bilaspur - 495684, M.P. (iv) Downstream facilities : 35,000 TPA of Proper Zi Roads; 40,000 TPA of Rolled Products; 7,000 TPA of Extrusions and 18,000 TPA Billets & Slabs, (v) Captive power plant
<b>Investment</b>	Rs. 5 billion (Authorized capital)
<b>Product Range</b>	Aluminium meta and downstream products
<b>Production</b>	(i) 95,000 tons of metal, (ii) Saleable products (extrusion, rods, etc) 94,000 tons in 1994-95
<b>Financial Status</b>	On a turnover of Rs. 6.3 billion, posted a net profit of Rs. 153 million in 1993-94
<b>R &amp; D Facilities:</b>	In-house to improve quality of alumina, reduce consumption of materials (caustic soda) and energy
<b>Programs</b>	(i) Modernisation of aluminium foundry, (ii) installation of a new 40,000 TPA cold rolling mill at a cost of Rs. 1.4 billion, and (iii) computerizing process control cells in smelter and other areas, such as marketing functions
<b>Foreign Collaboration</b>	(i) Hungary for Alumina, and (ii) former USSR for smelter
<b>Employment</b>	7,780

## BHARAT GOLD MINES LIMITED

Suvarna Bhawan, Oorgaum (KGF) 563120, Karnataka

Tel : 081538-60274, 081538-60330

<b>Chief Executive Officer:</b>	Mr. P.A.K. Shettigar, Managing Director
<b>Year of Establishment:</b>	Though in operation for years, it was incorporated as Public Sector Company in 1972
<b>Ownership:</b>	Government of India
<b>Facilities:</b>	(i) two mines in Kolar Gold Fields (KGF) viz., Mysore/Champion Amalgamated Mine and Nundydroog Mine, besides the Yeppamana Mine in the Anantpur District of Andhra Pradesh. Recently constructed a new gold mine at Chigargunta in Chittoor District of Andhra Pradesh to exploit the potential gold deposit there. (ii) three metallurgical plants viz., Mysore Mine Mill and Nundydroog Mill to serve KGF and Yeppamana Mine in the Ramagiri Gold Fields to process; (iii) four well-equipped Mechanical & Electrical Workshops in KGF, where a variety of mining machinery and equipment are manufactured for captive use as also for sale to other mining industries in coal and metal mining sectors.
<b>Nature of Operation:</b>	(i) gold production; (ii) shaft sinking and other mine construction activities for different mining companies in the country (recent activity) (iii) manufacturing a variety of mining machinery for sale in the country and also fabricates small and medium scale structures for other PSU's (also recent addition) and (iv) undertaking turnkey jobs like coal handling plants, mine car circuit systems in underground and on surface. etc.
<b>Investment:</b>	Paid up capital of Rs. 460 million
<b>Program:</b>	(i) opening up new gold mining centres, (ii) recovery of gold from the old mill tailings by way of risk ventures.
<b>Branch Offices</b>	1. Bharat Gold Mines Limited, 6, Basant Enclave, New Delhi 110 057 2. Bharat Gold Mines Limited, Britto Complex, 10/7. VI Cross, Victoria Layout, Bangalore 560 047
<b>Yeppamana Mine</b>	Bharat Gold Mines Limited, Yeppamana Mine, Ramagiri Gold Fields, Via Dharmavaram, Anantpur District, Andhra Pradesh 515 671
<b>Employment:</b>	7600
<b>Remarks:</b>	A loss making concern. Available for sale/private participation

## COAL INDIA LTD

Coal Bhawan, 10, Netaji Subhash Road, Calcutta 700 001

Tel. 220-9980, Fax. 033-220-5316

<b>Chief Executive Officer:</b>	Mr. P.K. Sengupta, Chairman
<b>Year of Establishment:</b>	1975
<b>Ownership:</b>	Government of India
<b>Scale of Operations:</b>	Large scale
<b>Works/Facilities:</b>	457 mines and 16 washeries
<b>Products/Services:</b>	Coal, hard coke, soft coke etc.
<b>Production:</b>	In 1993-94, 216 MT coal was produced and target for 1994-95 is 223 MT
<b>Capital Employed:</b>	Rs. 76530 million
<b>Turnover:</b>	Rs. 111040 million
<b>Employees:</b>	700,000

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## GUJARAT MINERAL DEVELOPMENT CORPN. LTD

Khanij Bhawan, Ashram Road, Ahmedabad 380 009

Tel: 402475-9, 469406, 469512, Telex: GMDC AM 0121-320 MINCORP

<b>Ownership:</b>	Gujarat State Government undertaking
<b>Year of establishment:</b>	1963
<b>Nature of operation:</b>	Mining of important minerals and developing mineral industries in the State.
<b>Facilities:</b>	<p>(1) A lignite mine producing 9 lakh tpa. at panandhro in Kutch district. Recently Corporation has taken up an expansion scheme at a cost of Rs. 100 crores by introducing Bucket Wheel Excavator technology for augmenting the capacity to about 20 lakh tonnes per year.</p> <p>(2) A lignite mine producing 2,50,000 tpa. of lignite near Rajpari in Broach district. Lignite is being mined here in combination of manual mining and mechanised mining by use of conventional equipments.</p> <p>(3) Fluospar Project consisting of a mine producing 1,25,000 tpa of graded ore and a beneficiation plant producing 16,000 to 18,000 tpa. of beneficiated fluospar. This project is located at Kadipani in Chhotaudepur taluka of Baroda district.</p> <p>(4) Bauxite mines near Naredi in Kutch district and near Bhatia in Jamnagar district producing a total of about 70,000 tonnes per year of graded bauxite.</p>
<b>Programs:</b>	Multimetal Project planned for mining of base metal ore and produc-



tion of Copper, Lead and Zinc concentrates through a beneficiation process. This project is located near Ambani town in Banaskantha district.

**Services:**

Identifying economically viable mineral deposits  
Preparing detailed project report, techno-economic feasibility report for investment decision  
Preparing mining plan under MCR, 1960 & MCDR, 1988  
Preparing environment management plan which includes EIA & EMP as per guidelines of MOEF and IBM  
Technical know-how for mineral based industries  
Dealing with various minerals like lignite, fluorspar, bauxite, limestone, multimetal-ore, granite, marble, China clay, etc.

**Employees:**

3700

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**HINDUSTAN ALUMINIUM COMPANY LTD**

Century Bhawan, 3rd floor, Dr. Annie Beseant Rd, Bombay 400 025  
Tel: 022- 4308491, 4308362, 4308893, Fax: 022-4227586, Telex: 011-74405 HINDON

**Chief Executive:**

Mr. A.V. Birla

**Ownership:**

Private sector (owned by Birla Group)

**Works:**

(i) Aluminium plant, Renukoot, Dist. Sonbhadra, U.P.  
(ii) Captive power facility

**Investment:**

Rs. 705 million (authorised capital)

**Product Range:**

Aluminium metal and down stream products

**Financial Status:**

Rs. 1.1 billion net profit in 1993

**Performance:**

Sales amounted to Rs. 9.8 billion in 1993

**Foreign Collaboration:**

KAISER, USA

# HINDUSTAN COPPER LIMITED

Industry House, 10 Camac Street, Calcutta 700 017

Tel: 033-2428518 / 3156 / 1886, Fax: 033-2429536 / 7966, Telex: 021-5112 / 2248

- Chief Executive Officer:** Mr. Ved Leekha, Chairman & Managing Director
- Year of Establishment:** 1967
- Ownership:** Government of India
- Nature of Operation:** Developing indigenous mining and metallurgical copper industry, exploration, mining beneficiation, smelting, refining and production of wire-bar and CCR copper as saleable products, and recovering various by-products associated with the copper ore. HCL is the sole producer of primary copper in the country.
- Facilities:**
- (a) 8 underground and two open pit mines
  - (b) Khetri Copper Complex, at Khetri, Rajasthan, comprising Khetri, Kolihan, Chandmari and Dariba Mines, Concentrators at Khetri and Dariba, 31,000 TPA Smelter, Refinery, sulfuric acid and fertiliser plants at Khetri.
  - (c) Indian Copper Complex at Ghatsila, Bihar comprising Mosabani, South Bank and Rakha, (16,500 TPA) Refinery, Smelter, Sulfuric Acid and By-product recovery plants at Moubhandar.
  - (d) Malanjkhand Copper Project in Madhya Pradesh, comprising an open pit mine, concentrator and leach copper plant.
  - (e) Taloja Copper Project at Taloja, Maharashtra, for conversion of cathodes into continuous cast copper wire rods. (60,000 TPA)
  - (f) Six beneficiation plants located at its 3 mining sectors. The concentrator plants are located near the producing mines and have matching capacities with those of the mines.
- Production:** During 1992-93, HCL produced and treated 5.25 million tonnes of ore and produced 51827 tonnes of metal in concentrates. The blister production during the year was 48006 tonnes.
- By-product recovered:** The by-product recovery plant at ICC processes anode slimes generated at ICC and KCC and produces gold, silver etc. as by-products. In addition, HCL produces sulphuric acid, recovered as SO<sub>2</sub> from flash furnaces gases of both its smelters.
- Financial Status:** Estimated profit of Rs. 250 million in 1992-93
- R&D Facilities :** Efforts are on for bioleaching of lean chalcopyrite ores at Malanjkhand and for reducing energy consumption
- Programs:**
- (i) Expansion of Khetri smelter to 45,000 TPA
  - (ii) Opening of a underground mine at Malanjkhand with an annual capacity of 3 million tonnes of high grade ore and a matching concentrator plant of 1 million tonnes.

**Foreign Collaboration:** (i) In both the smelters Outokumpu flash smelting technology is being used followed by Piere Smith Conversion and electro refining to produce cathodes.  
(ii) Southwire of USA for Taloga plant.

**Employees:** 23240

## HINDUSTAN ZINC LIMITED

6, New Fatehpura, Udaipur-313001  
Tel: 0294-523854, Fax: 0294-25765 / 26443

**Chief Executive Officer:** Mr. A.C. Wadhawan

**Year of Establishment:** 1966

**Ownership:** Government of India

**Production:** 105,000 tonnes of zinc; 37,000 tonnes of lead; cadmium, 28 tonnes and silver, 44 tonnes (last two as by-products) in 1992-93.

**Product Range:** Present annual capacities of different products are:

	Tonnes
Mining (Lead-Zinc ore)	2,322,000
Mining (Rock Phosphate)	180,000
Zinc Metal	79,000
Lead Metal	30,000
Silver	48.5

**Facilities:** (i) Lead-zinc mines at Zawar area, Rampura-Agucha and Rajpura-Dariba (Rajasthan) Sarigapali (Orissa); Agrigundla (Andhra Pradesh); and Rock Phosphate mines at Meton (Rajasthan)  
(ii) 49000 TPA zinc other by-product smelter at Debori (Rajasthan) Zinc smelter of 30,000 TPA and 22,000 TPA lead facility at Vishakapatnam (Andhra Pradesh)  
70,000 TPA zinc and 35000 TPA zinc and lead facilities at Chouderia (Rajasthan)

**Investment:** Rs. 5 billion (authorised capital)

**Financial Status:** Profit of Rs. 700 million in 1992-93

**R&D Facilities:** Has well organised facilities. Efforts presently are on (i) solvent extraction process to recover cobalt from zinc smelter waste; (ii) bioleaching of zinc tailings; and (iii) establishing copper, nickel and cobalt recoveries from deep manganese nodules as an assignment from the Department of Ocean, Govt. of India

**Program:** (i) Revamping/replacing roaster at Debari; (ii) set up a 200 TPA chromium plant; (iii) recover cobalt and indium; and (iv) take up additional mining leases for lead-zinc mining.

## HUTTI GOLD MINES COMPANY LIMITED

P.O. Hutti - 584115, Karnataka  
Tel: (08532) 565529, 567540, 565422

<b>Chief Executive Officer:</b>	Mr. B. Easwarappa
<b>Year of Establishment:</b>	1948
<b>Ownership:</b>	Government of India
<b>Facilities:</b>	Foundries and workshop for manufacture and repairs of all plant, equipment and spare parts. Under the diversification programme the Company has reclaimed the old Mangalur Mines in the backward district of Gulbarga during 1980 and the oreshoot delineated upto 500; level was being stopped
<b>Performance:</b>	During the periods 1990-91 and 1991-92 it had mined and milled 2,02,476 tonnes and 2,04,510 tonnes of ore and recovered 1.05 tonnes and 1.08 tonnes of gold metal respectively, and is the leading gold producer in the country now. To reclaim the old Main Mine which was worked between 1902 and 1918 when extensive mining was done on Main Reef down to a depth of 3,460 ft (1,053 m).
<b>R&amp;D Facilities:</b>	Bio-Processing of Hutti Ores, Concentrates and tailings in collaboration with Indian Institute of Sciences, Bangalore.
<b>Remarks:</b>	The present ore production of about 700 tonnes per day comes from six parallel to sub-parallel lodes reached by three major shafts. The total ore reserves proved by mine development to a depth of 743 mts. (22nd level) are estimated at 5.06 million tonnes @ 6.74 g/t grade.

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## INDIAN ALUMINIUM COMPANY LTD

1 Middleton Street, Calcutta 700 071  
Tel. 033-402210, Fax. 033-403964/294464, Telex. 021-4700 INDAL IN

<b>Chief Executive Officer:</b>	Mr. Tapan Mitra, Vice Chairman & Managing Director
<b>Year of Establishment:</b>	1938
<b>Ownership:</b>	Private sector (Major equity holder: Alcan of Canada)
<b>Scale of Operation:</b>	Large
<b>Products/Services:</b>	Rolled products, foils, extruded products, ingot billet, properzi rods, power, paste & dried filter cake, hydrate and alumina, carbon, electrode paste, pre-baked carbon blocks, minerals, vanadium sludge, etc.
<b>Turnover:</b>	Rs. 10,378 million
<b>Exports:</b>	Rs. 1446 million
<b>Employees:</b>	8167

## INDIAN METALS & FERRO ALLOYS LTD

IMFA Building, Rasulgarh, Bhubaneswar-751 010 Orissa

Tel. 0674-480270/480540, Fax. 0674-480020

<b>Chief Executive Officer:</b>	Mr. B Panda, Chairman & MD
<b>Year of Establishment:</b>	1961
<b>Ownership:</b>	Private sector
<b>Products/Services:</b>	Alloys, Ores, export
<b>Turnover:</b>	Rs. 135 million
<b>Foreign Collaboration:</b>	Power Plant imported from Sweden, Ferro Alloy Smelters from Norway, Japan
<b>Employees:</b>	1700

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## INDIAN RARE EARTHS LTD

"Sherbanoo" 6th Floor, 111 M.K. Road, Bombay 400 020

Tel. 022-2030914/5, Fax. 022-2004430

<b>Chief Executive Officer:</b>	Mr. M.S. Nagar, Chairman & MD
<b>Year of Establishment:</b>	1950
<b>Ownership:</b>	Government of India
<b>Products/Services:</b>	Principal exportable products are ilmenite ore, synthetic rutile, mixed rare earths chloride, cerium hydrate
<b>Turnover:</b>	Rs. 182.935 million
<b>Employees:</b>	4500

## KUDREMUKH IRON ORE COMPANY LIMITED

11 Block, Koramangala, Bangalore - 560 034, Karnataka

Tel. (080) 576605

<b>Chief Executive Officer:</b>	Mr. A. Krishnamurthy
<b>Ownership:</b>	Government of India
<b>Year of establishment:</b>	1976
<b>Size of Operation:</b>	Large
<b>Facilities:</b>	Iron ore concentrate plant of 7.5 million tonnes capacity in Kudremukh, a 3 million tonnes per year capacity pellet plant in Mangalore.
<b>Production:</b>	Target of 6.2 million tonnes and 2.15 million tonnes has been set for production of iron ore concentrate and iron ore pellets respectively during the year 1993-94. For the period April to October 1993, the actual production was 3.37 million tonnes, production of pellets was 1.24.
<b>Exports:</b>	Iron ore concentrate and pellets was 4.73 million tonnes in 1993-94.
<b>Foreign Collaboration:</b>	Met-Chem, Canada
<b>Employees:</b>	2499

# MANGANESE ORE (INDIA) LIMITED

West Court, Katol Road . Nagpur-440001

Tel: 531241, 526114, 526112, 534529, Fax: 0712-526113

- Chief Executive Officer:** Dr. M.P. Dewangan, Chairman & Managing Director
- Year of Establishment:** 1962
- Ownership:** 51% by the Government of India, the balance between the Governments of Maharashtra and Madhya Pradesh.
- Size of Operation:** Large
- Facilities:** MOIL has set up a plant, based on indigenous technology, to manufacture Electrolytic Manganese Dioxide.
- (i) 10 mines in different states. In the state of Madhya Pradesh, it has mines at Balaghat, Ukwa, Tirodi and Sitapatore, while in the State of Maharashtra, it has mines at Chikla, Dongri Buzurg, Munsur, Kandri, Beldongri and Gumagaon. In Andhra Pradesh, it has a lease at Adilabad. (ii) Electrolytic Manganese Dioxide Plant
- Product Range:** High grade ores for production of Ferro Manganese; Blast furnace grade ore required for production of Hot Metal and Dioxide ore which goes into the production of Dry Battery Cells.

## Performance:

S.No.		1993-94 (Approximately)
1.	Production (lakh tonnes)	7.043
2.	Turnover (Rs. crores)	91.63
3.	Profit before Tax (Rs. crores)	21.32

- R&D Facilities:** Beneficiation of medium and low grade ores as well as medium grade dioxide ores to battery grade; Use of cable bolting and steel roof supports in underground mines; Improvement in mining methods: Diamond drilling to locate new manganese bearing areas and to establish the existence of further reserves in the existing areas; Optimisation of process parameters for Electrolytic Manganese Dioxide Plant; Undertaking exploration by diamond drilling, trenching, pitting, underground drivage etc. for locating new managanese ore bearing areas and proving manganese ore deposits in and around its leasehold areas; Premining support by cable bolting and use of steel supports in place of timber are being carried out in undergound working on experimental basis; trying to develop beneficiation processes to upgrade medium and low grade manganese ores to high grade.

- Employees:** 10,000

## **MYSORE MINERALS LIMITED**

39 Mahatma Gandhi Road, Bangalore

Tel: 575622, 575623, 575624, Telex: 0845-2432 My Mineral

<b>Chief Executive Officer:</b>	H.P. Srinivasa
<b>Year of Establishment:</b>	1966
<b>Ownership:</b>	Government of Karnataka
<b>Nature of Operations:</b>	Exploring the mineral wealth of the State in a planned and systematic manner and marketing the same in India and abroad.
<b>Product range:</b>	Chromite, Felsper, Bauxite, Clay, Quartz, Manganese, Iron Ore, Magnesite, Limestone, Dolomite, Corundum, Kyanite, Soapstone and Vermiculite. These mines are located in 13 districts of the state. (ii) various coloured granite i.e. Black, Pink/Red, Yellow, Grey, Red Multicolour, Green Chocolate Brown, Mottled Pink located in about 6 districts of the state. (iii) a stoneware Pipe manufacturing unit in the industrially backward are i.e. Bageshpura of Hassan district. This factory is based on the raw material available within the Company, produces 8,000 Mts of stoneware pipes per annum.
<b>Turnover:</b>	Rs. 200 million
<b>Employees:</b>	5,460



# NATIONAL ALUMINIUM COMPANY LIMITED

IDCO Tower, Jsnpath, Bhubaneswar-751007, Orissa  
Tel: 0674-404233, 405552, Fax: 0674-402713, 407966

<b>Chief Executive Officer:</b>	Mr. S K Tamotia, Chairman & MD
<b>Ownership:</b>	Government of India
<b>Works/Facilities:</b>	2.4 million tons per annum Bauxite Mines at Panchpatmali (Dt. Koraput, Orissa); 800,000 TPA Alumina Refinery at Damanjodi (Dt. Koraput); 218,000 tons per annum Aluminium smelter at Angul, Orissa; 720 MW capacity captive power plant at Angul; port facilities at Visakhapatnam (Andhra Pradesh) for export of Alumina and import of caustic soda
<b>Turnover:</b>	Rs. 11959.6 million
<b>Product Range:</b>	(i) Alumina/hydrate (ii) Aluminium metal
<b>Production:</b>	Aluminium metal - 200,000 tonnes (1993-94)
<b>Exports:</b>	(i) Alumina 420,000 tonnes (ii) Aluminium metal, 90,000 tonnes (1993-94)
<b>Financial Status:</b>	A profit-making company
<b>R&amp;D Facilities:</b>	In-house
<b>Program:</b>	(i) Expansion bauzite mine from the present 2.4 to 4.8 MTPA and Alumina refinery from 800,000 TPA to 1.35 MTPA (ii) Setting up of a 900,000 TPA Hydro Aluminium plant jointly with Norweign Hydro Aluminium.
<b>Foreign Collaboration:</b>	Aluminium Pechiney (France) for technical know-how and Engineering package
<b>Employees:</b>	5810

# NATIONAL MINERAL DEVELOPMENT CORPN. LTD

10-3-311/A, Khanji Bhavan, Masab Tank, Hyderabad-500 028 (AP)

Tel: 040-222071, Fax : 044-22236

<b>Chief Executive Officer :</b>	Mr. C.S. Mohan, Chairman
<b>Year of Establishment:</b>	1958
<b>Scale of Operations:</b>	Large
<b>Investment :</b>	Rs. 30 million (paid up capital)
<b>Value of Exports :</b>	Rs. 4086 million
<b>Products Manufactured:</b>	Iron Ore (Lumps, Fines) Diamonds, Natural Pellets
<b>Programs:</b>	<p>NMDC has launched huge expansion and diversification programs estimated to cost Rs. 1000 crores, a major portion of which will be met by internal sources</p> <ul style="list-style-type: none"><li>● Setting up a sponge iron plant base on Bailadila iron ore to produce value added products</li><li>● Setting up of ferrite grade ferric oxide production plant based on the natural ferric oxide of Bailadila (various grades have been found suitable by actual users in India &amp; abroad).</li><li>● Production of reduced iron powder/iron dust for use in PM parts manufacture, cores, welding electrodes, based on super concentrate of Bailadila ore.</li><li>● Setting up pelletisation plant based on Bailadila iron or fines.</li><li>● Development of lime stone and dolomite deposit to meet the future requirements of steel plant</li><li>● Development of Magnesite Deposit and setting up of dead burnt Magnesite plant in J&amp;K.</li></ul>
<b>R&amp;D Facilities:</b>	Turned waste 'blue dust' into ferric oxide, iron powder and ferrites - value added materials required in powder metallurgy and for producing hi-tech electronic components.
<b>Annual Turnover :</b>	Rs. 2585 million
<b>Foreign Collaboration :</b>	Iron Ore (Lumps, Fines), Japan, S. Korea Natural Pellets, Malaysia
<b>Employees :</b>	6962
<b>Branch Offices:</b>	Iron ore projects in Bailadila (MP), Donimalai (Karnataka) and Diamond mines at Panna (Madhya Pradesh)

## NEYVELI LIGNITE CORPORATION LTD.

Neyveli P.O. Tamil Nadu 607 801

Tel : 04148-280, Fax : 04148-646

<b>Chief Executive Officer :</b>	Mr. S. Bandopadhyay, Chairman & Managing Director
<b>Ownership:</b>	Government of India
<b>Year of Establishment :</b>	14.11.1956
<b>Products Manufactured:</b>	Excavation of Lignite. Generation of Electricity, Production of Urea. Production of Coke Fines
<b>Authorised capital:</b>	Rs. Two billion
<b>Investment :</b>	Rs. 4150 crores
<b>Annual Turnover :</b>	Rs. 666,68 crores (1992-93)
<b>Nature of Operations:</b>	Mining of lignite and its utilisation, contractual drilling in Rajasthan, Gujarat and Kerala.
<b>Programs:</b>	(i) opening a Third Mine of 11 million tonnes capacity to feed a Third Thermal Power Station of 1500 MW (3x 500) capacity Further explora- tion work carried out in the Neyveli Belt have revealed that there is potential to open three more mines and connected power stations. (ii) Expansion of First Thermal power station 420 MW (iii) Revamping of urea and briquetting and carbonisation plants
<b>Facilities:</b>	(i) Two open pit mines of 6.5 MT/A and 10.5 MT/A (ii) Two thermal power stations (600 MW and 1470 MW) (iii) Urea plant of 1,52,000 TPA (iv) Briquetting & Carbonisation Plant: 327,000 TPA
<b>Employees :</b>	24139

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## RAJASTHAN MINERAL DEVELOPMENT CORPORATION LIMITED

Khanij Bhawan, Tilak marg, C-Scheme, Jaipur 302 005

Tel: 380938, 380690. Telex: 0365-2302, Fax: 380148, Telegram: RIMDCO

<b>Year of establishment:</b>	22nd Nov. 1979
<b>Ownership:</b>	A Govt. of Rajasthan undertaking
<b>Scale of Operation :</b>	Large
<b>Products manufactured:</b>	Limestone, Gypsum, Lead Zinc Copper, rock phosphate fluorsper etc.
<b>Branches/Regional offices:</b>	Jodhpur, Bikaner, Jaisalmer, Udaipur, Deri, Jalore, Barmer, Banswara, Dungarpur, Hanumangarh

## **SANDUR MANGANESE & IRON ORES LIMITED**

Lohadri Bhavan, Yeshwantnagar 583124, via. Sandur, Bellary Dist. Karnataka

Tel: 336191, Grams: SMIORE

<b>Chief Executive Officer:</b>	Mr. Y.R. Ghorpade, Chairman
<b>Year of Establishment:</b>	1954
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Medium Scale
<b>Nature of Operations:</b>	Manufacture of manganese ore, ferrosilicon, ferro manganese, pig iron, silicomanganese and dot matrix printers.
<b>Production:</b>	The company has infrastructure to produce annually 350,000 tonnes of manganese ore, one of the largest deposits in India. The company has two beneficiation plants and an electro- metallurgical industry, producing low phosphate pig iron and low aluminium ferro-silicon.
<b>Paid up Capital:</b>	Rs. 1.80,73,000
<b>Employees:</b>	3000

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## **SESA GOA LIMITED**

Sesa Ghor, 20 EDC Complex, Patto, Panjim, Goa 403 001

Tel: (0832) 220160, Fax: (0832) 225156, 224735

<b>Chief Executive Officer:</b>	Mr. A. Giovinazzo, Managing director
<b>Year of Establishment:</b>	1965
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Medium scale
<b>Production:</b>	2 million tonnes of iron ore annually from 3 major iron ore mines.
<b>Works/Facilities:</b>	Has two washing plants with classifier and hydrocyclone facility.
<b>Nature of Operations:</b>	Mining of iron ore and building of deep sea fishing, trawlers. Sea Seat Information Systems Ltd. is a subsidiary company.
<b>Authorised Capital:</b>	Rs. 10,00,00,000
<b>Paid up Capital:</b>	Rs. 7,30,59,000
<b>Foreign Collaboration:</b>	Ferraro, Italy, I.M.E. Snc Di Zuccarini M&C
<b>Employees:</b>	1851

## STEEL AUTHORITY OF INDIA LIMITED

Ispat Bhavan, P.B. No. 3049, Lodi Road, New Delhi 110 003  
Tel. 4011-690481, Fax. 011-4694015

<b>Chief Executive Officer:</b>	Mr. M.R.R. Nair, Chairman
<b>Year of Establishment:</b>	1972
<b>Ownership:</b>	Government of India
<b>Scale of Operation:</b>	Large scale
<b>Nature of Operations:</b>	Operates 5 steel plants and owns captive mines for coking coal, iron ore, limestone, dolomite, etc. Produced 8.7 million of saleable steel in 1993-94.
<b>Turnover:</b>	Rs. 59601 million (between April to September 1994)
<b>Employees:</b>	187,900 as of March 31, 1994

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## SPONGE IRON INDIA LIMITED

10-3-311/A, Castle Hills, Masab Tank, Hyderabad - 500028  
Tel. (040) 227643, 227343; Fax: (040) 220531

<b>Chief Executive Officer:</b>	Mr. N.K. Patnaik
<b>Year of Establishment:</b>	1980
<b>Ownership :</b>	Government of India and Government of Andhra Pradesh
<b>Works/Facilities:</b>	Set up with UNDP/UNIDO assistance; based on the basic SL/RN Technology developed by Lurgi of West Germany; built a plant for briquetting of sponge iron fines below 6 mm size.
<b>Production:</b>	Produced in 1992-93 : 49110 tonnes, Capacity utilisation 82%; Sales turnover : Rs. 213 million
<b>Nature of Operation:</b>	A separate Engineering and Projects Division has been operating in the Company since 1981 for undertaking Design and Engineering work for commercial Sponge Iron Plants. An MoU has also been signed with M/s RPG Industries for setting up two kilns of 60,000 tpa each with the engineering and know-how developed by SILL, in the joint sector. The sponge iron plant of M/s Hindustan Electro Graphites Limited which has been commissioned with the Engineering Assistance of M/s Sponge Iron India Limited has been functioning satisfactorily operating at more or less at 100% capacity utilisation level.
<b>R&amp;D Facilities:</b>	Constant efforts are being made to indigenise critical spares, thereby reducing dependence on imports and saving valuable foreign exchange.

## TATA IRON & STEEL CO. LTD

Jamshedpur-831 001, Bihar

Tel: 0657-310024, Fax: 0657- 310818

<b>Chief Executive Officer:</b>	Mr. Jamshed J Irani, Managing Director
<b>Year of Establishment:</b>	1907
<b>Scale of Operation:</b>	Large
<b>Ownership:</b>	Private sector
<b>Products/Services:</b>	captive iron ore mines
<b>Turnover:</b>	Rs. 37910 million
<b>Employees:</b>	77107

**SERVICES**

# CENTRAL MINING RESEARCH STATION

Barwa Road, Dhanbad, Bihar  
Tel. (0326) 822156; Fax: (0326) 822214

**Chief Executive Officer:** Mr. B. Dhar

**Year of Establishment:** 1955

**Ownership:** Council of Scientific & Industrial Research, Government of India

**Function:** Central Mining Research Station (CMRS), a laboratory of the Council of Scientific and Industrial Research, Government of India, carries out R&D activities in the fields of Rock Mechanics and Mining Methods, Mine Environment and Safety as well as Mine Machinery, Equipment and Instruments to make mining safe, productive and economical as well as reduce environmental pollution due to mining and health hazards to miners.

## **R&D Facilities:**

- Geomechanics and Mining Methods
- Stability analysis and design of coal and metal mines
- Design and development of mine support system
- Mine subsidence prediction, control and analysis
- Numerical modelling and computer programming
- Physical modelling
- Assessment of cavability and estimation of support capacity of longwall faces
- Slope stability analysis and design in rocks and waste spoils
- Mine fill practices (stowing for stabilization and optimum exploitation)
- Stabilization and rehabilitation of old mine workings
- Design, development and monitoring of blasting operations, vibration monitoring and control
- Biodegasification and bio-leaching
- Stability analysis, design and development of tunnels, dams and underground caverns.
- Mine Environment and Safety
- Fire hazard evaluation and control
- Assessment, design and development of pollution control measures in mines and mining areas
- Reclamation and management of mine waste dumps
- Sustainable development of fragile mining areas
- Ventilation network planning and design
- Mining Equipment and Machinery
- Design and development of mine safety equipment
- Services Offered
- Testing/Analysis/Evaluation/Standardization including calibration of:



Mining Equipment, Explosives, Coal/Rock Samples, Mine Environment and Ventilation Instruments, Flameproof Equipment, Safety Equipment, Materials

**Services to Industries:**

**Contract Research:** Contract research comprises all R&D projects, which fall within the purview of approved research areas of CMRS undertaken through specific contractual arrangement agreed upon for the purpose. Contract research covers:

(i) Sponsored Projects, (ii) Collaborative Projects, and (iii) Grant-in-Aid Projects in areas of CMRS specialisation listed above.

**Consultancy Services:** include scientific, technical, engineering or other professional advice/assistance based on available knowledge/expertise of CMRS. These comprise:

- (i) testing and analysis (including certification and calibration),
- (ii) training,
- (iii) technical assistance of an advisory nature,
- (iv) fabrication/production of special products,
- (v) repair and maintenance, and
- (vi) supply of information/data base.

**Major Programmes (1992-97)**

(i) Development of Mining Technology for the Exploitation of Complex Coal Deposits; (ii) Development of Total packages for Optimal Exploitation of Mineral Deposits using Improved Technologies; (iii) Numerical Modelling of Rock Excavation and Computer Application in Mine Planning and Designing from Stability and Safety Point of View; and (iv) Development of Underground Space Technology.

**Minor Programmes**

(i) Prediction of Ground Stability by Acoustic Emission Measurement, (ii) Studies on the Parameters contributing to Air Pollution in Mines, (iii) Feasibility of Use of Aluminium Alloy for Support/Equipment in Mines, (iv) Ergonomics in Mining Operations, (v) Corrosion in Mines, (vi) Design of Rock Bolting Equipment, (vii) Design of Chock for Bord and Pillar Workings, (viii) Evaluation and Testing of Powered Supports, (ix) Physical Modelling of Coal Mining Systems, (x) Development of Communication Systems for Mines, Methods for Ventilation and Safety in Mines, Mining Machinery and Equipment as well as Methods for Reclamation of Mined Areas

**New Introduction/creation**

Testing Cell (TC): CMRS has recently reorganised its testing facility procedure and created a "CMRS Testing Cell" to provide a 'Single Window Assistance' to the mining and allied industries and manufacturers of mining equipment/machinery in all its matters related to testing and calibration.

Mineral Resource Cell (MRC): MRC is constituted to collect, store and disseminate information on country's mineral resources and investment conditions, structure of mining industry, environmental obligations, status of mining codes and laws, etc.

Small Scale Mining Cell (SSMC): In operation since January 1992, it caters to the need of small mines of the country related to assess feasibility, planning of operations, evaluation of environmental impact, etc.

Human Resource Development Cell (HRDC): This was set up for the dissemination of knowledge and experience gained through research for application in mining and allied industries.

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## **CENTRAL MINE PLANNING AND DESIGN INSTITUTE LTD.**

Gondwana Place, Kanke Road, Ranchi 834 008, Bihar

Tel: 0651- 301522, 305456, Fax: 0651-305447, 301851

<b>Chief Executive Officer:</b>	Mr. B.C. Misra, Chairman & Managing Director
<b>Year of Establishment:</b>	1974
<b>Ownership:</b>	Government of India
<b>Scale of Operation:</b>	Large
<b>Nature of Operations:</b>	Consultancy from concept to commissioning of coal mines
<b>Employment:</b>	1200 skilled professionals

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## **ENGINEERS INDIA LIMITED**

Bhikaji Cama Place, R.K. Puram, New Delhi 110 066

Tel:011-602121, 603475, Fax: 011-6872693, 6886245

<b>Chief Executive Officer:</b>	Mr. P K Rudra, Chairman & Managing Director
<b>Year of Establishment:</b>	1965
<b>Ownership:</b>	Government of India
<b>Facilities:</b>	Provides specialised services in respect of process design/development, heat & mass transfer equipment design, energy conservation, environmental engineering, advanced control/optimisation, systems engineering & computerisation, specialised materials management and maintenance, and operations and safety including HAZOP studies and Risk Analysis.
<b>Turnover:</b>	Sales Turnover in 1992-93 was Rs. 15741 lakhs

### List of Projects Handled by Metallurgy Division

Year of compln	Projects	Client	Services Offered
1973	100 tpd copper concentrator at Dariba Rajasthan.	Hindustan Copper	Commissioning assistance, project management.
1975	100 tpd copper concentrator at Agnigundla, Andhra Pradesh	Hindustan Cooper	Commissioning assistance, project management.
1979	30,000 tpy zinc smelter at Vasakhapatnam, Andhra Pradesh	Front-end engineering, detailed engineering, procurement, construction supervision and project management.	
1979	10,000 tpy lead smelter at Visakhapatnam, Andhra Pradesh	Hindustan Zinc	Front-end engineering, detailed engineering, procurement, construction supervision and project management.
1980	120 tpd zinc roaster revamp at Debari, Rajasthan	Hindustan Zinc	Basic engineering package, detailed engineering, procurement, construction supervision and project management.
1980	60 tpa siler refinery at Visakhapatnam, Andhra Pradesh	Hindustan Zinc	Process design, basic engg. package, detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1982	200 tpd semi-industrial rock phosphate beneficiation plant at Jhamarkotra	Rajasthan, Rajasthan State Mines & Minerals Limited	Process selection, process design, basic engineering, detailed engineering, procurement, construction supervision, commissioning assistance and project management
1982	2 million tpy copper concentrator at Malanjkhanda, Madhya Pradesh	Hindustan Copper	Front-end engineering, detailed engineering, procurement, construction supervision, commissioning assistance and project management.

Year of compln.	Projects	Client	Services Offered
1983	Lead smelter expansion by 12,000 tpy at Visakhapatnam, Andhra Pradesh	Hindustan Zinc	Study, basic engineering package, detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1983	Modernisation of purification system in zinc electrolysis plant at Visakhapatnam, Andhra Pradesh	Hindustan Zinc	Study, basic engineering package, detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1985	200 tpd cement plant at Mathod, Karnataka	Karnataka Mineral & Mfg. Co.	Detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1988	200 tpd cement plant at Malkhed, Karnataka	South India Cements	Limestone deposit evaluation, mine planning, detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1988	Alumina & aluminium projects in Orissa. Bauxite Mining 2.4 m. tpy, Alumina 0.8 m tpy, Aluminium 218,00 tpy	National Aluminium Company, Detailed engineering, procurement, construction supervision, commissioning assistance and project management.	
1988	Copper refinery modernisation at Ghatsila, Bihar (Expn. by 8000 tpa)	Hindustan Copper	Detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1988	600 tpa mica paper & 300 tpa sulating products project at Hazaribagh, Bihar	Mica Trading Corporation	Detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1989	Lignite mine expansion by 500 tpa at Panandhro, Gujarat	Gujarat Mineral Development Corporation, Detailed engineering, procurement, construction supervision and project management.	

Year of compln.	Projects	Client	Services Offered
1991	1 Mtpy lead-zinc mining and beneficiation project at Jhamarkotra, Rajasthan. 11 million tpa open pit mine. 500,000 tpa crushing plant (HGO). 900,000 tpa beneficiation plant (LGO)	Rajasthan State Mines & Minerals	Study, process design, detailed engineering, procurement, construction supervision and project management.
1994	300,000 tpy SMS grade limestone project at Sanu, Rajasthan	Rajasthan State Mines & Minerals	Study, process design, detailed engineering, procurement, construction supervision, commissioning assistance and project management.
1995	2 Mtpy SMS grade limestone project at Arki, Himachal Pradesh	National Minerals Development Corporation	Study, process design, detailed engineering, procurement, construction supervision, commissioning assistance and project management.

### **GHOSH, BOSE & ASSOCIATES PVT LTD**

8 Harrington Mansion, 8 Ho-Chi-Minh Sarani, Calcutta-700 071

Tel. 033-2427152/2421866/2427036, Fax: 033-2424808

**Chief Executive Officer:** Mr. Subimal Ghosh, Managing Director

**Year of Establishment:** 1972

**Ownership:** Private sector

**Products/Services:** Planning & environmental studies, Public health & environmental impact assessment, environmental impact etc.

**Foreign Collaboration:** EDF International, France.

**Employees:** 107

## KIRLOSKAR CONSULTANTS LTD

917/19a Shivaji Nagar, Fergusson College Road, Pune-411 004  
Tel. 0212-344495, Fax: 0212-342894

<b>Chief Executive Officer:</b>	Mr. D.V. Tikekar, Managing Director
<b>Year of Establishment:</b>	1963
<b>Ownership:</b>	Private sector
<b>Products/Services:</b>	Environmental, engineering, environmental planning & management
<b>Turnover:</b>	Rs. 59.635 million
<b>Foreign Collaboration:</b>	WS Atkins International Traffic and Transportation UK, IGIP Consulting Engg
<b>Employees:</b>	225

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## MINERAL EXPLORATION CORPORATION LIMITED

Dr. Baba Saheb Ambedkar Bhawan, High Land Drive Road,  
Seminary Hills, Nagpur 440 006  
Tel: 0712-522141, Fax: 0712-531080

<b>Chief Executive Officer:</b>	Mr. M Kumar, Chairman & Managing Director
<b>Year of Establishment:</b>	1972
<b>Ownership:</b>	Government of India
<b>Production/Service:</b>	<p>MEC is the premier exploration agency in the country established for systematic detailed exploration of minerals to bridge the gap between the initial discovery of a prospect and its eventual exploitation.</p> <p>The company has full fledged integrated services covering all aspects of exploration including, exploration geology, geohydrology, rock mechanics, environmental impact studies, computerised geostatistical analysis, remote sensing, mineralogical and petrological studies chemical &amp; physical analysis, exploration geophysics, survey, drawing etc, apart from a large fleet of about 250 drills and 15 mining units.</p> <p>undertakes mine construction foundation engineering studies, tubewell construction, restoration of archeological monuments and manufacture of drilling and geological accessories.</p>
<b>Authorised Capital:</b>	Rs. 60 million
<b>Performance:</b>	(i) Since its inception, the company, has proved about 55,000 million tonnes of different minerals/ores coal, bauxite, base metals, gold, iron ore, limestone etc. (ii) It has conducted some 5 million meters of drilling and 20,000 meters of mining.
<b>Employment:</b>	5000

# **METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED**

Sri Aurobindo Marg, Hauz Khas, New Delhi

Tel: 667370, 668667

- Chief Executive Officer:** Mr. S R Sarkar, Chairman & Managing Director
- Year of Establishment:** 1972
- Ownership:** Government of India
- Works/Facilities:** Rendering consultancy, detailed engineering and technical services to Iron and steel industry, non-ferrous metals, power plants, chemicals, general engineering, environmental engineering, ocean engineering and defence.
- Authorised Capital:** Rs. 40 million
- Performance:** Turnover during 1992-93 was Rs. 114.00 crores against Rs. 117.76 crores during 1991-92.
- Overseas Operation:** MECON is rendering project management and technical services in association with Pan African Consultancy Services (PACS); established Overseas Offices at Dubai, UAE and Dusseldorf, Germany; detailed engineering, consultancy and site supervision services for a Copper extrusion and wire rod plant in Oman as well as Cold Rolling Mill Complex in Indonesia; undertaken Feasibility Studies for a 40,000 tonnes per year Steel Plant complex in Oman and 500,000 tonnes/yr Steel Plant in the UAE; carrying out, design & engineering services for clients in the USA and Germany
- R&D Facilities:** An off-line software for optimizing operation of cold rolling mills in steel plants; a laser spotting system for accurate alignment of coke over pusher cars with the over doors is to be installed at Rourkela Steel plant. Hydraulic automatic gauge control system for control of strip thickness in cold rolling mills to close tolerances is also now ready for commercial marketing.
- Programs:** The R&D plan also places emphasis on attaining technological self reliance, fostering and accelerating development and implementation of indigenous technology in iron and steel, high tech system and non-conventional and renewable energy sources; MOU with R&D Institutions, manufacturing organisations project execution agencies and Foreign consultants; Vendor development for improved quality assurance; Cooperation with Engineering & Consultancy Organisations for joint development efforts; Management by policy evolution through participation by employees; Project-by-project Quality improvement efforts.

## NATIONAL INSTITUTE OF ROCK MECHANICS

P.O. Champion Reefs, Kolar Gold Fields, Karnataka 563 117

Tel: (08153)60937, 61169, 60263, Fax: 08153-60937, Telex: 0843-215 KIRM IN

**Chief Executive Officer:**

**Ownership:** Government of India

**Facilities:** State-of-the-art facilities and expertise to address a variety of problems related to ground control and mine design in metal mines, coal mines and hydro-power projects

**Specialists in :** Mine design, ground control, numerical modelling, geotechnical studies, rock blasting, seismology, instrumentation, rock testing, materials testing

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## WESTERN INDIA ENVIRONMENTAL TECHNOLOGIES LTD

870/1 Bhandarkar Instt Road, Pune-411 006, Maharashtra

Tel. 0212-344346, Fax. 0212-345316

**Chief Executive Officer:** Mr. Chandan Gadgil, Chairman & Managing Director

**Year of Establishment:** 1991

**Ownership:** Private sector

**Products/Services:** Environmental engineering

**Turnover:** Rs. 24.966 million

**Foreign Collaboration:** Paques B V, Netherlands

**Employees:** 166

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## ITALAB PRIVATE LIMITED

Meher House, 15 Cawasji Patel Street, Fort, Bombay 400 001

Tel: 022-2873882, 2873667, 2872545, 2874096, Telex: 011-85801 ITAL IN

**Year of Establishment:** 1948

**Programs:** Undertake prompt and accurate analysis of ores, minerals and metals, analysis of drugs for raw materials and their finished products, water, chemicals, oils, paints and fertilizers.

**Branches:** Calcutta, Madras, Visakhapatnam, Bellary, Cochin, Jamnagar



**GOVERNMENT AGENCIES**

## DIRECTORATE GENERAL OF MINES SAFETY

Dhanbad-826 001, Tel : (0326) 822911

<b>Chief Executive Officer:</b>	Mr. V. Mahajan, Acting Director General
<b>Nature of Operations:</b>	Under the constitution of India, Safety, Welfare and Health of workers employed in mines are the concern of the Central Government. The objective is regulated by the Mines Act and various rules and regulations made thereunder and is administered by the Directorate General Mines Safety (DGMS) under the Union Ministry of Labour.
<b>Regional Offices</b>	Dy. Director-General of Mines Safety, Central Zone. Dhanbad-826 001  Dy. Director-General of Mines Safety, Eastern Zone, P.O. Sitarampur, Dist. Burdwan, West Bengal  Dy. Director-General of Mines Safety, Southern Zone, Hill Fort Road, P.O. Adarshnagar, Hyderabad (A.P.)  Dy. Director-General of Mines Safety, South-Eastern Zone, Harihar Singh Road, Morabadi, Ranchi 834 008

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## GEOLOGICAL SURVEY OF INDIA

27, Jawaharlal Nehru Road, Calcutta 700 016

Tel: 249-6976, 249-6941, Fax: 091-33-2496956

<b>Chief Executive Officer:</b>	Mr. D.B. Dimri, Director General
<b>Year of Establishment:</b>	1851
<b>Ownership:</b>	Government of India
<b>Functions</b>	The Geological Survey of India is a premier Geoscientific Organisation not only in the country but in the world. (i) Geological mapping continued to be one of the most important functions of GSI for generation of basic data for subsequent geological and various development activities in the country. (ii) on locating mineral and energy resources, harnessing of land and water resources for meeting the growing demands of mineral/metal industries, power, agricultural, irrigation sectors etc, (iii) continuous updating and refinement of National Geoscience Knowledge base through geological mapping, specialised thematic studies and airborne geophysical surveys, and (iv) mapping and preparation of inventory of resources on or below the Seabed in Exclusive Economic Zone (EEZ) in the surrounding ocean.
<b>Organisational Set Up</b>	The GSI, administered by the Ministry of Mines has a Director General as its head and based in Calcutta and six regional offices at Lucknow, Jaipur, Nagpur, Hyderabad, Calcutta and Shillong. It has three specialised Wings, viz. Coal, Marine and Airborne Mineral Surveys and Exploration, a Training Institute located at Hyderabad and five satellite

## Activities

training centres. It has operational offices in every State, excepting Manipur, Mizoram, Himachal Pradesh, Goa & Pondicherry.

The major activities of the Geological Survey of India are summarised below:

- 1) Mineral Exploration
  - a) Coal and Lignite
  - b) Ores and Minerals (non-coal minerals/metals)
- 2) Systematic Geological Mapping
- 3) Specialised Thematic Studies
- 4) Airborne Geophysical Surveys
- 5) Marine Surveys
- 6) Geotechnical investigation
  - a) Sponsored Schemes: Water Resources Development Projects like Irrigation, Hydel Power etc.
  - b) Communication Projects: Geotechnical evaluation of major river basin
- 7) Management of Natural Hazard
  - a) Seismotectonic studies
  - b) Studies on Landslides, Floods, Volcanism etc.
- 8) Environmental Geology Studies
  - a) Environmental resource appraisal
  - b) Studies on environmental impact, mitigation of effect of hazard and urban/rural development
  - c) Global Change Programme
- 9) Geothermal Studies
- 10) Glaciological and melt water regime assessment
- 11) Expedition to Antarctica
- 12) Geodata and Information Management
- 13) Dissemination of Information
  - a) Map Compilation & Printing
  - b) Publication
  - c) Curatorial activity
- 14) Laboratory Studies, Research and Development
  - a) Petrology and Mineralogy
  - b) Palaeontology
  - c) Geochronology & Isotope Geology
  - d) Photogeology & Remote Sensing
  - e) Analytical Chemistry
  - f) Geophysics
  - g) Geotechnical Labs
- 15) Collaboration and International activities
  - a) Collaboration with national and international agencies
  - b) Bhutan Scheme
- 16) Human Resources Development
  - a) Departmental Training Programmes
  - b) Extradepartmental Training in India
  - c) Training abroad

Annually conducts some 800 geoscientific investigations embracing all the above activities with principal thrust on mineral exploration programmes.

GSI covered about 95 per cent of the total mappable land area (3.16 million sq. km) of the country by systematic mapping and about 65 per cent of Exclusive Economic Zone (EEZ) of the country (2.02 million sq. km) by reconnaissance mapping through marine surveys by the organisation's own vessels — one ocean going and two coastal launches. While total coverage under the National Aeromagnetic Survey Programme has been about 52% of the targetted area (1.88 million sq. km), the Multisensor Surveys have been conducted over 55,277 sq. km by the Survey's own Twin Otter Aircraft.

As a Govt. Department, GSI renders geological advice not only to the Ministry of Mines but also various other Central/State Govt. Department, Public Sector Undertakings and other institutions.

#### **Employment:**

The total strength of the personnel in the GSI as sanctioned is 18153 as on 1.12.92 and usually about 80% of the above strength are available for deployment. 10,873 personnel of all categories belong to the scientific and technical streams and 3454 personnel to administrative and related streams and 3826 personnel to Gr. 'D' category.

#### **Liaison Office**

Puspa Bhawan, 2nd floor, Madangir Road, New Delhi 110 062

#### **Regions**

1. Central (Maharashtra & Madhya Pradesh): Dy. Director General, GSI complex, Seminary Hills, Nagpur 440 006
2. Eastern (West Bengal, Bihar, Orissa, Sikkim & Andaman-Nicobar Island): Dy. Director General, 12 A & B Russel Street, Calcutta 700071
3. North Eastern (Assam, Meghalaya, Tripura, Mizoram, Manipur, Nagaland and Arunachal Pradesh): Dy. Director General, Asha Kutir, Laitumkhrah, Shillong 793 003
4. Northern (Uttar Pradesh, Punjab, Haryana, Himachal Pradesh, Jammu & Kashmir): Dy. Director General, Plot No. 2, Sector 'E', Aligunj, Lucknow- 226 020
5. Southern (Andhra Pradesh, Karnataka, Tamil Nadu, Kerala, Goa & Pondicherry): Dy. Director General, GSI Complex, Bangalguda, Hyderabad - 530 660
6. Western (Rajasthan & Gujarat): Dy. Director General, GSI Complex, 15-16 Jhalana Doongri, Jagatpura Road, Jaipur-302 004

## INDIAN BUREAU OF MINES

Indira Bhawan, Civil Lines, Nagpur  
Tel. 0712-534642, Fax : 0712-533041

**Chief Executive Officer:**

Mr. O.P. Sachdeva, Controller-General

**Year of Establishment:**

1948

**Ownership:**

Government of India

**Functions:**

Conservation and systematic development of India's mineral resources. It was with this basic objective that the Bureau was formed in March 1948. The tool provided is the Mines and Minerals (Regulation and Development) Act and Mineral Conservation and Development Rules framed thereunder, and the authority vested in the IBM under this Act and Rules.

1. (a) Enforcing conservation and systematic development of mineral resources through inspection of mines, beneficiation plants, and mineral-based industries.  
(b) Conducting geological, mining, beneficiation and other related techno-economic field studies and applied research on mining geological problems.
2. Conducting studies on environmental protection and pollution control in regard to the mining and mineral beneficiation operations.
3. Preparation of mineral maps and the inventory of mineral resources of India.
4. Providing technical consultancy services on suitable terms within the country and abroad in connection with:
  - (i) appraisal and exploitation of mineral deposits including ore dressing investigations and analysis of ores and minerals and preparation of feasibility reports and detailed project of mines/ore-dressing projects,
  - (ii) improving efficiencies and reducing operation costs
  - (iii) market surveys
  - (iv) financial analysis of capital requirements, and
  - (v) matters related to any of the functions enunciated in this charter.
5. Conducting under the departmental programme testing and analysis of ores and minerals, mineral beneficiation and related technological studies on samples obtained from land and sea; research on fundamental aspects of mineral beneficiation.
6. Collection, processing and storage of data on mines, minerals and mineral-based industries, collection and maintenance of world mineral intelligence, foreign mineral legislation and other related matters.
7. Publication of bulletins, monographs, information circulars and reports of investigations relating to mining, mineral beneficiation and mineral beneficiation and mineral-based industries.
8. Publication of statistics relating to mineral production in India, mineral stocks, exports, local consumption, etc., rendering assistance to the mineral trade in the marketing of minerals.
9. Advising the Government on matters in regard to the mineral

industry particularly on planning for exploitation and utilisation of the country's mineral resources and those of the sea, infrastructural requirements, environmental protection and pollution control, export and import policies, trade, mineral legislation, wages, taxes, royalty and related matters.

10. Training of scientific, technical and other cadres of the department and persons from the mineral industry and other agencies in India and abroad.

11. Promoting awareness regarding the conservation and systematic development of mineral deposits through museums, exhibitions and other audio-visual media.

12. Undertaking such other activities as may become necessary in the light of the developments in the field of mining, mineral beneficiation and related technology.

**Delhi Office:**

Pushpa Bhawan, 2nd floor, Madangir Road, New Delhi 110 062

**ALLIED COMPANIES**

## **IDL India Ltd**

DLF Centre 5th floor, Sansad Marg, New Delhi-110 001  
Tel. 011-3718260, Fax. 011-3718259

**Chief Executive Officer:** Mr. G. Ewart, Chairman & MD  
**Year of Establishment:** 1955  
**Ownership:** Private sector  
**Products/Services:** Commercial blasting explosives products etc.  
**Turnover:** Rs. 750 million  
**Foreign Collaboration:** Nallo Chem Ltd USA  
**Employees:** 4200

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## **M S A INDIA LTD**

P-25, Transport Depot Road, Calcutta-700 088  
Tel. 033- 456904/459773/491707, Fax. 033-497368

**Chief Executive Officer:** Mr. Subir Chakraborty  
**Year of Establishment:** 1965  
**Scale of Operation:** Medium  
**Ownership:** Private sector  
**Products/Services:** Safety Equipments for Mining & industries  
**Turnover:** Rs. 33.6 million  
**Employees:** 85

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## **NETEL CHROMATOGRAPHS**

S V Road, Manpada, Thane-400 607 Maharashtra  
Tel. 0215- 5344107/5343279/5344721, Fax. 0215-5346433

**Chief Executive Officer:** Mr. V R Bhave  
**Year of Establishment:** 1979  
**Ownership:** Private sector  
**Products/Services:** Gas chromatographs and pollution monitoring instruments  
**Turnover:** Rs. 70 million  
**Foreign Collaboration:** Gastech Inc USA  
**Employees:** 120



## JINDAL ALUMINIUM LIMITED

Jindal Nagar, Tumkur Road, Bangalore 560 073, Karnataka  
Tel: 8394255/56/57, 8395946, Fax: 080-8394258

<b>Chief Executive Officer:</b>	Mr. S.R. Jindal, Chairman & Managing Director
<b>Year of Establishment:</b>	1970
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Large
<b>Product/Services:</b>	Manufacturing over 3500 profiles in different alloys for use in as diverse areas as transport, communications, agriculture, atomic energy, etc.
<b>Works/Facilities:</b>	World class quality assurance systems, the most modern micro-processor based extrusion press, computerised Spectrovac for metal analysis, computer-aided die manufacturing facilities and a state-of-the-art R&D centre recognized by the Department of Science and Technology, Government of India. The Company has received the ISO 9002 certification.
<b>Turnover:</b>	Rs. 1,000 million; covers 30% of the Indian market with only 50% capacity utilisation
<b>Foreign Collaboration:</b>	None
<b>Employees:</b>	500

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## ORISSA EXTRUSIONS LTD

Ganeswarpur Indl Estate, Balasore-756 019 Orissa  
Tel. 006782-62976/63078/64093/64732, Fax. 06782-62975

<b>Chief Executive Officer:</b>	Mr. Anjan Sen, Chief Executive & Manager
<b>Year of Establishment:</b>	1986
<b>Ownership:</b>	Private sector
<b>Scale of Operation:</b>	Medium
<b>Products/Services:</b>	Aluminium extrusions
<b>Turnover:</b>	Rs. 311 million
<b>Collaboration:</b>	Indian Aluminium Company Ltd, Industrial Promotion & Investment Corporation of Orissa Ltd
<b>Employees:</b>	160

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