CHAPTER – 3

BRIEF PROFILE OF THE SELECTED COMPANIES

This chapter is concerned with the presentation of brief profiles of the selected companies. It includes basic information like year of incorporation, location of plant, installed capacity, objectives and activities, product range, demand of products, technology used, modernisation and expansion programmes, research and development activities, environmental practice, human resource management, quality management system, corporate social responsibilities, awards and reorganization etc. relating to the selected companies to the extent available from different published sources.

The companies selected for the purpose of this research study are categorized in terms of ownership i.e., public sector and private sector which have already been mentioned in the first chapter. The names of the companies under study are mentioned below once again:

Public Sector Companies
1. Maharashtra Electrosmelt Ltd.
2. Sponge Iron India Ltd.
3. Ferro Scrap Nigam Ltd.
4. Indian Iron & Steel Company Ltd.
5. Rashtriya Ispat Nigam Ltd.
6. Steel Authority of India Ltd.

Private Sector Companies
1. Kusum Iron and Steel Ltd.
2. Aditya Ispat Ltd.
3. Gangotri Iron and Steel Company Ltd.
4. Ipi Steel Ltd.
5. Rathi Udyog Ltd.
6. Modern Steels Ltd.
7. Bhuwalka Steel Industries Ltd.
8. Aarti Steels Ltd.
9. Isibars Ltd.
10. Mahindra Ugine Steel Company Ltd.
11. Bhusan Steel and Strips Ltd.
12. Kalyani Steels Ltd.
13. Ispat Industries Ltd.
14. Tata Steel Ltd.

Now brief profiles of the above mentioned companies are presented one by one.

MAHARASHTRA ELECTROSMELT LIMITED (MEL)

Maharashtra Electrosmelt Ltd. was promoted by State Industrial and Investment Corporation of Maharashtra in the year 1974. The plant of the company is located at Chandrapur in the state of Maharashtra which is well connected by road to the major cities of India. Besides, the area of Chandrapur has vast deposits of good grade iron ore. MEL has become a subsidiary of Steel Authority of India Ltd., a Government of India enterprise in the year 1986. The company is operating under the Ministry of Steel, Government of India and engaged in the manufacture and distribution of ferro manganese. At present MEL is the largest manganese based ferro alloy producer in the country having an installed capacity of 1 lakh tonnes per annum.

The product range of the company includes high carbon ferro manganese, medium and low carbon ferro manganese and silico manganese. Assimilating the latest technology and maintaining global quality standards over the years, the company has earned leadership position in its area of operation. It has achieved distinction in technological developments in many areas like raw material preparation, raw material substitution, furnace operation, ferro alloy casting and processing etc.

The company has given top priority to the management of environment and in controlling pollution in its activities. It has taken various measures like plantation of trees in and around the premises, solid waste management,
monitoring of liquid and air effluent for protection of environment. The company maintains sound quality management system in all its activities and among all sections of the plant. As a result of this, MEL has been awarded with quality assurance certificate ISO 9001:2000.

**SPONGE IRON INDIA LIMITED (SIIL)**

Sponge Iron India Ltd. was set up by the Government of India and the Government of Andhra Pradesh with the assistance of UNIDO and UNDP in the year 1975. The project was established as a demonstration plant to develop technologies and process for the manufacture of sponge iron by using lump ore and non-coking coal as major raw materials with a view to utilizing their abundance in the country. The plant of the company is located at Paloncha in Khammam District of Andhra Pradesh. The company started operation in the year 1980 with an installed capacity of 30,000 tonnes per annum. The key feature of the plant is that it has the unique capacity and flexibility to work with different combinations of ores and coals. The company had become successful in achieving its primary goal of producing quality sponge iron from lump iron ore and low grade non-coking coal and thus captured a country-wide market for its products. Because of its excellence, SIIL has been recognized as a premier consultant in the field of coal based sponge iron technology. Subsequently the company commissioned the second unit in the year 1985 at the same location and with the same capacity with its in-house expertise.

Again with a view to eliminating wastage in the rotary kiln process, SIIL engineered and built a cold briquetting unit, the first of its kind in India, for the production of high density sponge iron briquettes with improved carbon content. A captive power plant was also set up by the company to utilize the thermal energy lost through waste gases in the rotary kiln process.

SIIL manufactures sponge iron lumps, sponge iron briquettes, sponge iron fines and sponge iron equipments. The company has diversified its product into pig iron and silico-manganese. SIIL also plays vital role in rendering complete range of engineering and consultancy services for establishing new
sponge iron plant both within the country and abroad. The company holds an exclusive position in the establishment and up-gradation of coal based sponge iron technology in the country, innovations in the usage of sponge iron and its conversion into steel and also in the conversion of waste material into value added products.

**FERRO SCRAP NIGAM LIMITED (FSNL)**

Ferro Scrap Nigam Ltd. was incorporated in the year 1979. It is a public sector company running under the Ministry of Steel, Government of India. The company is engaged in the recovery and processing of scrap from slag and refuse generated during iron and steel making in the plants of Steel Authority of India Ltd. and Rashtriya Ispat Nigam Ltd. The operating units of FSNL are located at Rourkela, Burnpur, Bhilai, Bokaro, Durgapur and Vizag.

Ferrous scrap arising out of iron and steel making was previously considered as a waste. But the recovery and usage of ferrous scrap help to produce steel with considerable savings in energy and precious natural resources. Thus FSNL plays a vital role since its inception in the recovery and processing of ferrous scrap and thereby in reducing cost of steel making. The major activities which are undertaken by FSNL are:

(i) separation of iron and steel scrap from slag and dump and recovery and processing of these scraps
(ii) collection, processing, loading and transportation of maintenance scrap
(iii) collection, processing and segregation of mill rejects
(iv) scarfing of slabs and crushing, screening and transportation of LD slag to be used in Sinter Plant, Blast Furnace and Rail Ballast.

FSNL has also diversified its activities from the conventional job of dealing with ferrous scrap and slag into the job of handling lime and sludge at Bokaro Steel Plant. The company has formulated plans to segregate and process slag and other technical wastes for different alternative uses like soil reconditioner, rail road ballast, concrete aggregates etc. which will act as substitute for limestone at blast furnaces. It has also planned to set up a
centralized workshop for coil winding and repairing of heavy duty lifting magnet and a hydraulic baling press for the processing of sheet trimmings, turnings and borings. FSNL is going in for modernization to meet the increased demands of the integrated steel plant both in terms of quality and quantity of scrap.

**INDIAN IRON AND STEEL COMPANY LIMITED (IISCOL)**

The Indian Iron and Steel Company Ltd. was incorporated as a public limited company in the year 1918 which was originally established by James Erskine as Bengal Iron Works in 1874. After changing hands several times, the company was taken over by the Government of India in the year 1972. It has become a wholly owned subsidiary of Steel Authority of India Ltd. (SAIL), a Government of India enterprise in the year 1979. Again IISCOL has been amalgamated with the parent company with effect from Feb. 2006.

The plants of the company are located at Burnpur and Kulti in the Burdwan district of West Bengal. The plants consists of two coke ovens, two blast furnaces and one steel meeting shop and also a well equipped rolling mill complex. Rolling mill complex includes 32 soakpits, one blooming mill, one billet mill, one heavy structural and one light structural mill and one merchant and rod mill. The plants have now the capacity to produce 4.26 lakh tonnes of saleable steel and 2.54 lakh tonnes of pig iron annually.

IISCOL is engaged in the production of steel structurals, special sections as well as pig iron. It also manufactures centre – sill Z-section used in the fabrication of wagons, Z-type sheet piling section used in construction of barrages, bridge foundations and other projects and colliery arch section used for proof support in collieries. Slit rolling for small diameter rounds has also been developed by the company. The products of IISCOL carry high demand in the domestic market.

Recently the company has undergone huge expansion and modernization programme for enhancement and upgradation of existing capacity and also for commission of some new mills. The company has given
priority in controlling pollution and managing environment in its all activities.
Implementation of environment management system in rolling mill complex has enabled the company to earn ISO 14001:2004 certification. Because of sound quality management system the company has been awarded with ISO 9001:2000 certification.

**RASHTRIYA ISPAT NIGAM LIMITED (RINL)**

Rashtriya Ispat Nigam Ltd. was established by the Government of India at Visakhapatnam in the year 1982. The steel plant of the company is located at a distance of 26 Km from the Visakhapatnam city. The company has also a blast furnace grade limestone captive mine at Jaggayapeta, a captive mine for dolomite at Madharam, a manganese ore captive mine at Cheepurupalli. The steel plant and all mines are located in the state of Andhra Pradesh. The plant has a capacity for producing 2.656 million tonnes of saleable steel. The infrastructure facilities of the plant include coke ovens, coal chemical plant, sinter plant, blust furnaces, steel melting shop and continuous casting machines and rolling mills. The company has been consistently operating at full capacity utilisation.

RINL manufactures a wide range of products which include wire rods, round, reinforcement bars, TMT bars, angles, channels, beams, billets, blooms, structural steel and high tensile steel. The product profile of the company also includes basic grade pig iron, granulated slag, coal chemicals and other by-products. With the adoption of world-class technology the company is able to produce the quality goods for the delight of the customers.

The RINL has adopted various measures for conservation of energy by way of various waste energy recovery facilities. Solid waste management has been given due importance in RINL. The company follows an environment management system in all its operation to protect the environment from pollution. The company is awarded with ISO 14001:1996 certification for its sound environment management system. The company is committed towards
occupational health and safety of its workforce and it has been awarded with OHSAS: 1999 because of its sound occupational health and safety policy.

**STEEL AUTHORITY OF INDIA LIMITED (SAIL)**

Steel Authority of India Ltd. is a public sector steel enterprise, was incorporated on January 24, 1973. This company was formed to materialise the concept of the Ministry of Steel, Govt. of India in creating a holding company to manage inputs and outputs of some government steel enterprises under one umbrella. Accordingly SAIL was made responsible for managing four integrated steel plants at Bhilai, Bokaro, Durgapur and Rourkela and three special steel plants viz. Alloy Steel Plant, Salem Steel Plant and Visvesvaraya Iron and Steel Plant. The last one i.e. Visvesvaraya Iron and Steel Co. Ltd., a subsidiary of SAIL has been merged with SAIL with effect from December 1998. The Indian Iron & Steel Co. Ltd., Maharashtra Elektromelt Ltd and Bhilai Oxygen Ltd. are also subsidiaries of SAIL. It has also promoted several joint ventures in different areas ranging from power plants to e-commerce. SAIL was restructured as an operating company in the year 1978. Almost all plants and major units of SAIL are ISO certified.

The main objectives of SAIL are to plan, promote and organize an integrated and efficient development of iron and steel industry and its associated input industries such as iron ore, coking coal, manganese, limestone, refractory etc. It is made to formulate and recommend to the government a national policy for the development of iron and steel and related input industries. SAIL is engaged in the manufacture of both basic and special steels and distribution of the products on equitable and rational basis in the country. The product range of the company includes diverse range of steel products, hot and cold rolled sheets and coils, galvanized sheets, electrical sheets, structural, plates, bar and rods, stainless steel and other alloy steels which are useful for construction, engineering, power, railway, automotive and defence industries.

SAIL today is the leading steel making company in India. Its wide range of long and flat steel products have high demand both in national and
international markets. It has its own central marketing organisation which encompasses a wide network of 38 branch offices and 47 stockyards throughout India. It has also an International Trade Division and a Consultancy Division which offers services and consultancy to clients world-wide.

With its technical and managerial expertise, SAIL wants to be a respected world-class corporation and the leader in Indian steel business in terms of quality, productivity, profitability and customer satisfaction.

**KUSUM IRON AND STEEL LIMITED (KISL)**

Kusum Iron and Steel Limited was originally incorporated as Daluram Agro Industries Private Limited with the main objective of producing agro-based items and carrying on business as timber growers and merchants. But due to adverse Government policies, the project of the company had become unprofitable and accordingly the management of the company decided to switch over the business from agro item to the manufacture of steel items. The name of the company has been changed from Daluram Agro Industries Private Ltd. to Kusum Iron and Steel Private Ltd. and again subsequently changed to Kusum Iron & Steel Ltd. and a fresh certificate of incorporation has been issued.

The plant of the company is located at Raninagar Industrial Growth Centre, Jalpaiguri District in the state of West Bengal. The installed capacity of the plant is 9600 metric tonnes per annum. The West Bengal Industrial Infrastructure Development Corporation, Kolkata has granted sanction for setting up this unit. The company is engaged in the manufacture of special alloy steel castings, M.S. Ingots and rolled products like giders, angles, channels and tees.
ADITYA ISPAT LIMITED (AIL)

Aditya Ispat Limited was incorporated in the year 1990 with the objective of manufacturing steel products. It was formerly known as Aditya Global Techno Corporation Ltd. The plants of the company are located in IDA Jeedimelta in Hyderabad in the state of Andhra Pradesh.

The company is engaged in the manufacture of mild steel rounds, squares and bright bars. The product range of the company includes MSBD rounds and squares, MS wires, carbon steel, bright bars, free cutting steel and scrap. The company also started manufacturing of value added products like stainless steel and alloy steel bright bars. Now the company plans to expand its activities in the field of computer software and telecommunication activities.

The core competence of the company particularly in manufacturing bright bars helps in maintaining its leadership in local markets. With additional capacities of production the company has entered the foreign market and subsequently increased the share in exporting its products over the years. The company has been able to maintain the quality and standard of its products and as a result the products of the company are well accepted in the market.

GANGOTRI IRON & STEEL COMPANY LIMITED (GISCOL)

Gangotri Iron and Steel Company Ltd. was formerly named as Esskayjay Ispat Ltd. which was incorporated as a public limited company in the year 1992. The plant of the company is located at Patna in the state of Bihar. The installed capacity of the plant was 13,500 metric tonnes per annum on single shift basis for a period of ten hours per day. Subsequently the company enhanced its capacity from 13,500 MT per annum to 21,600 MT per annum by running its plant in two shifts of eights hours each. It has led the company to better utilization of furnace, fuel and power.

The company is engaged in the production of M.S. deformed cold twisted bars, M.S. rounds, M.S. flats etc. Then the company altered its product mix in favour of value added Thermex TMT bars which resulted in better price realisation for the company. The advantage of incorporating thermex
The tremendous brand image and superior quality of GISCO THERMEX TMT products has enabled the company to broaden its market share. So the products of the company which were mainly marketed in the state of Bihar, are now being sold in other states of the country as well.

The company maintains a sound quality management system. The company has also been awarded ISO 9001: 2000 and ISO 14001: 1996 certification for its quality management system, practices and environmental concerns. The products of the company continue to carry ISI mark.

**IPI STEEL LIMITED (ISL)**

Ipi Steel Limited was incorporated in the year 1983 with the main objective of manufacturing various steel products. The plant of the company is located at Gundichapada, Dhenkanal district in the state of Orissa. Initially the plant was licensed to manufacture 18,000 TPA (tones per annum) of steel ingots and subsequently its installed capacity was gradually increased to the present capacity of 50,000 TPA. The company had also set up facilities for the manufacture of 30,000 TPA of steel rolled products which was subsequently increased to 36,000 TPA. The company also installed an induction furnace with a capacity of 18,000 TPA and subsequently added another induction furnace with a capacity of 21,800 TPA.

The company was established with the objective of manufacturing and selling M.S. ingots and M.S. rolled products. The product range at present of the company includes steel bars and rods, steel ingots, angles and channels aluminum, brass, carbide, iron, tin plates etc.

The company is in a process of substantial expansion and it has undertaken some major projects for manufacturing Bars CTD, M.S. ingots, Runners and Rivers. The company has got ISO 9002 certification in the year 2001.
Rathi Udyog Limited is a private company headed by Mr. P.C. Rathi, a well known personality in the steel industry with experience of over five decades in steel melting and rolling. The company is engaged in manufacturing Rebars and Wire Rods which are broadly categorized as the long products in the steel industry. The main application of Rebars is in the construction industry. Wire rods, another product of the company have various industrial applications.

Rathi Udyog Ltd. was the first to adopt Tor-Steel Technology to manufacture CTD reinforcement rebars in India from Tor-Istag Steel Corporation, Luxembarge, through the Tor-Steel Research Foundation in India. It ensures 40% savings in steel consumption and gives the Indian construction industry a much needed impetus. Also the company is the first to produce TMT bars in North India by the use of the patented ‘Thermex’ Technology of M/S. Hennigsdorfer Stahl Engineering (HSE), Germany.

Rathi Udyog Ltd., an ISO 9001 certified company, is constantly making every possible effort to upgrade their technology and improve their product quality to retain and enhance market share.

The company’s sister concern viz. Rathi Iron and Steel Industries Limited has also commissioned a Steel Rolling Mill Plant at Pithampur in the state of Madhya Pradesh. The installed capacity of Rathi Udyog Ltd. together with that of its sister company is about 1,75,000 TPA of rolled products and 40,000 TPA of melting facilities.

The company is in the process of setting up an integrated steel project at Orissa to manufacture steel billets by using the most advanced technology and the most cost-effective route of steel making. This project comprises of facilities for the manufacture of 3,00,000 TPA Sponge Iron, a Steel Melting Shop of 5,00,000 TPA, Pig Iron of 2,00,000 TPA and captive power plant of 50 MW. There is a tremendous potentiality of this project because the basic raw materials i.e. iron ore and coal are available in abundance in the vicinity of the project site at Sambalpur.
MODERN STEEL LTD. (MSL)

Modern Steels Ltd. was incorporated in the year 1973 as a private limited company and converted into a public limited company in the year 1974. The company set up a mini steel plant at Mandigobindgarh, Punjab with an installed capacity of 9,000 TPA with the objective of manufacturing carbon and alloy steel. The capacity was increased to 18,000 TPA in 1977 and further to 36,000 TPA in 1984. A steel rolling mill was added in 1979 with an installed capacity of 30,000 TPA which was further increased to 50,000 TPA in the year 1995.

Under modernization scheme, MSL is at present equipped with two number 25-tonne Electric Arc Furnaces (EAF), Secondary Refining Furnace, Vacuum Degassing Equipment along with continuous casting facilities. A 30-tonne AOD converter is under installation for production of stainless steel. The plant is also equipped with two numbers of modern rolling mills. It has an annual installed capacity of 0.1 million tonne through EAF route. Since its inception, the company has been technology driven and it used latest state-of-the-art technology. The company has achieved spectacular growth because of its ability to develop and upgrade with the latest technology.

The company has undertaken projects from time to time to modernize the existing rolling mill division to widen the range of product. Its product range includes carbon, constructional steel, alloy steels, spring steels, free cutting and tools etc. Thus the activities of the company were expanded from producing steel ingots and cold rolled products to these value added items. The company caters to the needs of automobile, tractor, engineering, defense, railways and allied industries. The company has got ISO-9002 certification by DNV, Norway with accreditation from RVA, Netherlands. It is also awarded with ISO / TS 16,949 : 2002 certification.
BHUWALKA STEEL INDUSTRIES LIMITED (BSIL)

Bhuwalka Steel Industries Ltd. was originally incorporated as a private limited company in the year 1981 and subsequently it was converted to a public limited company in the year 1987. The company was promoted by Bhuwalka group and started commercial operations in the year 1983. The company is one of the largest manufacturers of steel rolled products in South India with plant at Bangalore, Kanchipuram and Mumbai. BSIL has three manufacturing units at Bangalore, one near Mumbai and one at Kanchipuram. The company is now one of the fastest growing companies in secondary steel sector in the country.

The product range of the company includes rolled steel products, TMT bars, angles, channels, beams, flats, square, rounds, light structuralss, coils etc. The company is also engaged in manufacturing ingots in one of its plants at Bangalore. BSIL acts as a conversion agent for TISCO, SAIL and RINL which supply steel billets for conversion into cold twisted bars / rod. The company has set up another unit at Wada in the state of Maharashtra for the manufacture of steel rolled products. It has also set up a wholly owned subsidiary-Bhuwalka Steel Industries (Srilanka) Ltd. in Srilanka for manufacturing billets and rolled steel products.

The company has taken steps for the expansion and modernization of its plants. It has undertaken an extensive modernization programme for Bangalore unit by installing a new furnace, roughing mill, high speed finishing mill and also a cooling bed. The company has embarked upon another modernization programme of its Mumbai unit by replacing the existing furnace, electrifications works, rolling mill and installing testing equipments etc. Further the company is going to set up two new units - one at Kanchipuram in the state of Tamil Nadu and another at Wada in the state of Maharashtra for the manufacture of steel rolled products. BSIL is now operating at the leading edge of technology. This company is a licensee of a Germany-based company viz. Hennigdorfer Stahl Engineering Gmbh for manufacturing Thermex, Thermo Mechanically Treated (TMT) reinforcement bars. This is the first company in South India to adopt this advanced technology. This advanced technology
enables the company to earn core competence in steel sector helping it to meet the needs and demands of infrastructure and civil / housing construction sector manufacturing reinforcement bars and structural.

The products manufactured by the company are of superior quality and maintained the Indian standard which is equivalent to most of the international standards. The client list of the company includes Indian Railways, State Electricity Board, L & T, Infrastructure Projects and Infrastructure Institutions.

**AARTI STEELS LIMITED (ASL)**

Aarti group was incorporated in the year 1977 in the name of Aarti Steels Limited with the main objective of manufacturing and processing steel. The plant of the company is located at Ludhiana in the state of Punjab with a capacity of 1.25 lac tonnes per annum. It has a wire drawing unit with an installed capacity of 36,000 MT per annum which manufactures wires like tyre bead wire, spring street wire etc. In addition to these, the company has recently commissioned an integrated steel plant in Orissa with a capacity of 0.5 million tonnes per annum. A 40 MW captive power plant has also been commissioned.

The company manufactures wide range of products in carbon steel, alloy steel, spring and alloy spring steel. It has also a diverse range of wire products which include auto tyre bead wire, steel rope wire, soft G.I. wire, cycle spoke wire, nipple wire, spring steel wire, G.S. wire, rolling quality galvanized wire, round cable wire etc. The steel products manufactured by the company are of high quality which conform to national and international standards. The consistent quality of the company has got approval from OME’s in Mahindra and Mahindra (Tractor Jeep Division), Eicher Demm, Escorts Limited, International Tractors Limited, Maruti Udyog, Telco, Ashok Leyland and a number of transmission component manufacturers. Government institutions like Railways, State Transports etc. have also recognized the products of ASL and purchased necessary components to meet their requirements.
ISIBARS LIMITED (IL)

Isibars Group was founded as India Steel Industries in the year 1959 setting up its plant in Wadala, Central Mumbai for manufacturing bright bars and other items. The company was renamed as Isibars Limited and it commenced manufacturing of stainless steel bright bars in 1990 establishing a plant in Turbe, Navi Mumbai. The company also started a bright bar division at Khopoli in the year 1997 and the bright bar capacity at Navi Mumbai was increased.

The product range of the company includes round, square, hexagon, flat and angle bars as well as wire rods. It also has a wide range of stainless steel used for general and special applications.

The company integrates steel melting and hot rolling by the use of upgraded technology. A state-of-the-art bar and rod rolling mill has been set up which was sourced from Pomini S.P.A. of Italy. This technical tie up with Pomini enabled the company to export a reasonable share of its products. The company has also entered into a long-term conversion agreement with Kalyani Carpenter Special Steels for conversion and processing of high-tech speciality steel. The company is likely to improve its market position by achieving the targeted export creating its presence in international markets in countries in South America, South Africa, South East and the Far East.

Isibars Ltd. considered research and development activities as an integral part of its overall operations and the company directed these activities in achieving its corporate objective of growth and excellence. Isibars Ltd. now stands for the modern industrial spirit in India and is on the way to be a leading global player in stainless steel long products having a high degree of value addition.

MAHINDRA UGINE STEEL COMPANY LIMITED (MUSCOL)

Mahindra Ugine Steel Company Ltd. (MUSCO) was promoted by Mahindra & Mahindra. It was incorporated in the year 1962. It is located at Khopoli, Mumbai. The company has two divisions - steel and stamping. It
manufactures tools, alloy and special steels with the help of the Electric Arc Furnace (EAF) route and caters to high-end applications for the railways, bearings and the automotive and engineering. Its two stamping units manufacture pressed sheet, metal components. Its products are used mainly by the automobile and engineering industries for crankshafts, axles, connecting rods, gears, ball and roller bearings, shells, valves etc. Various categories of steels are being produced by the company which include Alloy constructional steels, Ball Bearing steels, Stainless and heat resistance steels, Carbon tool steels, Alloy tool and die steels, Boron Steels, Valve steels, Carbon constructional steels, Carbon and Alloy free cutting steels and micro alloyed steels.

MUSCOL is one of the steel companies in India which is approved by large reputed multinational corporations such as General Motors and Ford Motors, US, Mercedes Benz and BMW, Germany and Mitsubishi Motors, Japan. The company’s clients include also multinationals like Timkens, FAG, Rane TRW, L & T Johndeer, GKN Axles, Horbeiger and Caterpillar.

BHUSAN STEEL & STRIPS LTD. (BSSL)

A casting unit in Ghaziabad was taken over by Bhusan group in the year 1987 and renamed it as Bhusan Steel & Strips Ltd. The plants of the company are located at Sahibabad in Uttar Pradesh and Khapoli in Maharashtra. The main activity of the company is to produce cold rolled, galvanized and special steel and strips. It also produces angles and wire rods. It is the largest (in the secondary sector) and the only CR steel plant in India which manufactures cold rolled coils and sheets up to a width of 1700 mm, as well as galvanized steel coils and sheets up to width of 1350 mm. The company has currently a capacity to produce 0.6 million MT per annum of cold rolled steel at Sahibabad works and 0.4 million MT per annum of cold rolled steel at Khopoli works and out of that 0.25 million MT per annum of galvanized steel. The products of the company are widely accepted and extensively used for automobile, engineering and white goods sector of the country. Further because of its standard and
quality norm, the products of BSSL have global acceptance especially in important international market, like Europe, USA, Canada, Africa, China and the middle east etc.

BSSL is leading the technological revolution in Indian cold rolled steel industry today. The state-of-the-art of universal crown cold rolling mill from Hitachi, Japan ranks the company as the widest CR mill in India. The company has also installed Electrolytic Cleaning Line (ECL) with technology from Nippon Denro, Japan. Further, it has entered into a technical collaboration with world’s one of largest steel producers Sumitomo Metal Industries, Japan.

BSSL, one of the players running at the forefront in the ground of technological revolution in the Indian steel industry, is at the cutting-edge of value added steel manufacturing. With a state-of-the-art value added cold rolling plant at Khopoli and one of the most advanced hot rolling plants in the world coming up in Orissa, Bhusan Steel is strengthening every link in the value chain. Bhusan group is also planning to set up an integrated steel plant of 3 million tonne capacity in near future to produce hot rolled coils to meet the captive use for its group companies. The company has also plans of setting up of plant to meet the requirement of Kolkata and Chandigarh.

**KALYANI STEEL LIMITED (KSL)**

Kalyani Steel Limited was incorporated in the year 1973. It is a Pune-based company promoted by the Kalyani Group. It is one of the leading mini steel plants manufacturing quality carbon and alloy steels, engineering and alloy steel ingots, blooms and billets conforming to international standards. KSL has one of the largest Bloom continuous Caster and Electro Slag Refining Unit. The products of the company are manufactured at its Hospect Plant which employs a new facility using less power intensive mini-blast furnace route. The mini-blast technology has been provided by Tata-Korf Technology of Brazil. The alloy manufacturing is based on the modern energy and cost-saving technology of Energy Optimizing Furnace. KSL has used various technologies from Aichi Steels, Japan Mann, Germany Inteco, Austria, France and
Switzerland. It has also set-up an Electro-Slag Refining Plant to manufacture ingots. In this way Kalyani Steel has been continuously upgrading technology and infrastructure over the years. This modern set up has enabled the company to produce high quality alloy steels at competitive costs.

Kalyani Steel uses all the modern facilities which are at par with any sophisticated steel manufacturer in the world. It includes Electric Arc Furnace (EAF), Ladle Furnace (LF), Vacuum Degassing (VD), Vacuum Oxygen Decarburisation (VOD) for melting and refining of steel.

The basic product of the company has the primary market for the forgoing industry in India. At the same time, it manufactures various components for commercial vehicles, two-wheelers, diesel engines, bearings, tractors, turbines and railways to cater to a substantial portion of the domestic market.

**ISPAT INDUSTRIES LIMITED (IIL)**

Ispat Industries Ltd. is one of the leading integrated steel makers and the largest private sector producer of hot rolled coils in India. Founded by Mr. M. L. Mittal in the year 1985 as Nippon Denro Ispat Limited, Ispat Industries Ltd. is now a Rs. 7,500-crore company having the flagship position of the reputed Ispat Group.

The company produces world-class sponge iron, galvanized sheets and cold rolled coils in addition to hot-rolled coils at its two integrated steel plants located at Dolvi and Kalmeshwar in the state of Maharashtra. The company’s core competency is in the production of high quality steel by using cutting edge technologies. IIL has the total flexibility in choice of steel making route - conventional blast furnace route and electric arc furnace route. It has also total flexibility in choosing its energy source, be it electricity, coal or gas.

Ispat Industries Ltd. always quests for excellence giving top priority to the technology and innovation. With the help of improved technology, the state-of-the-art plants facilitate the company’s mission to attain and sustain market leadership through product superiority at a competitive cost.
With the help of modern integrated process management, knowledge management and effective control system the company has successfully reinforced its position as market leader in the national speciality steel market and also earned the capacity to produce international quality products at a competitive price.

Ispat Industries Ltd. would like to be a knowledge based organization that continuously achieves economic value for stakeholders by optimizing resources through operational excellence enabled by technology and driven by continuous innovation to meet customer satisfaction.

**TATA STEEL LIMITED (TSL)**

Established in 1907 at Jamshedpur, Bihar (Now Jharkhand) Tata Steel is Asia’s first and India’s largest steel company in the private sector. Tata Steel is among the lowest cost producing steel plants in the world. It is the single largest exporter of high quality, value added steel products in India. Presently Tata Steel is the sixth largest steel producer in the world in terms of actual crude steel production.

Tata Steel offers a diverse range of products and services. Its products include hot and cold rolled coils and sheets, galvanized sheets, tubes, wire rods, construction rebars, forging quality steel, rods, structural, strips and bearings, steel plant and material handling equipments, ferro alloys and other minerals which are primarily used in the construction, automotive and white goods industries. The company has introduced some brands like Tata Steelium (Cold Rolled Steel), Tata Shaktee (Galvanised Corrugated Sheets), Tata Tiscon (rebars), Tata Bearings, Tata Agrico (hand tools and implements), Tata Wiron (galvanized wire products), Tata pipes (pipes for construction). Apart from the main steel division, Tata Steel’s operations are grouped under various business units like bearing division, ferro alloys and mineral division, rings and agrico division, tube division, wire division etc. The wide range of carbon and steel products manufactured by the company are primarily used in the construction, automotive and white goods industries.
The production unit at Jamshedpur consists of seven blast furnaces, four steel melt shops, both ingot and continuous casting facilities, two primary mills, one cold rolling mill and seven finishing mills. The finishing mills include a sheet mill, a merchant mill, a narrow and a wide strip mill, medium and light structural mill, a bar and rod mill, three tube making plants, an agricultural implements mill and a bearing unit. The company has also captive oxygen plants, electrical power plants and maintenance units. Tata’s captive raw material resources and the state-of-the art 5 MTPA (million tonne per annum) plant at Jamshedpur helped the company to attain a competitive advantage. The company plans to expand its capacity from 5 MTPA to 7 MTPA by 2008. Tata Steel has embarked upon setting up three ambitious green field steel plants in eastern India which include 12 MTPA plant in Jharkhand, 6 MTPA plant in Orissa and 5 MTPA plants in Chhattisgarh. Determined to be a major global steel player, Tata Steel has recently included in its fold Nat Steel, Singapore, Millennium Steel, Thailand and Corus, UK.

With the lowest costs and its own captive mines, Tata Steel has the ability to be one of the most cost competitive steel plants in the world. The company encourages innovative research to ensure the competitive advantage in its overall business. Through its healthy environmental practice, dedicated and consistent social effort, Tata Steel strives to make a difference to people’s lives.