

# JAYASWAL NECO INDUSTRIES LIMITED (Steel Plant Division) - A complete integrated steel plant



**N**eco Group of Industries promoted by B. L. Shaw, Chairman of the company, is one of India's largest industrial groups. It has humble origin with a simple Grey Iron Foundry established at Nagpur in 1976. Adding on new ventures, expanding capacity and diversifying products, the group is touching new heights day by day.

The company's steel plant division produces products for automobile, auto component, transmission line tower, and seamless tube & flange manufacturers.

The product range includes HR sheets and coils, bars & rods apart from carbon & alloy steel.

The plant was established in collaboration with the China Shougang International Trade & Engineering Corporation and is located on a 1200 acre land at Raipur in Chhattisgarh, the Steel belt of the country.

#### Existing units under operation :

**Blast furnace :** This blast furnace is one of the best productive furnaces in India having productivity more than 3 ton/m<sup>3</sup>/day. The furnace is equipped with modern features like Bell Less top Charging System, Pulverized Coal Injection system, Oxygen enrichment system and combustion air pre-heating system. The furnace was commissioned on 14th Nov'1996 with 650-m<sup>3</sup> capacities. Bell less top was introduced on 12th Oct' 2004 and Pulverized Coal Injection System on 08th March'2005. After 12 years of continuous operation the blast furnace was blown out on 23rd of May 2008 for category-1 capital repair, modification and relining, which involved increasing the number of tuyere from 14 to 16, installation of modern cordon type tuyere stocks, replacement of BF shells, copper staves in Bosh and lower stack, iron staves in un-cooled upper stack, water-cooled throat elements. A new type of composite lining comprising of micro porous carbon blocks, graphite and semi-graphite material has been installed in hearth of the blast furnace. Ceramic cup has been provided in hearth lining for trouble free and long campaign life. New air-cooled iron runner has been installed for better throughput. The new concept of refractory - less stack, has resulted increase in useful volume of the blast furnace from 650 m<sup>3</sup> to 750 m<sup>3</sup>.

**Captive Power Plant :** The captive power plant has four

boilers of 30 TPH each, two turbo blowers and three turbo generators of total 14 MW power generation capacity, commissioned on 25th June'1997, 2nd November' 1997 and 19th December'2001 respectively.

**Sinter Plant:** This sinter plant is one of the best productive plants in India having productivity more than 1.6 ton/m<sup>2</sup>/hour. The plant was commissioned on 31st May'2004 with 36 m<sup>2</sup> capacity machine and second machine of same capacity was commissioned in August 2008 with target production of 8,00,000 tons of sinter /annum.

DRI-1 was commissioned on 30th June'2006 having 1, 05,000 mt/annum capacity with captive power plant of 14 MW power generation capacity with one FBC boiler of 30 TPH commissioned on 3<sup>rd</sup> March'2007.

DRI-2 was commissioned on 25th June'2007 having 1, 50,000 mt/annum capacity with captive power plant of 14 MW power generation.

**Coke Oven Plant :** The plant was commissioned on 26th January'2006 of non-recovery type having capacity of 2, 68,000 mt/annum.

**Steel Melting Shop :** The plant was commissioned on 29th October'2003 having capacity of 4, 00,000 mt/annum and COJET system for oxygen lancing commissioned on 17th December' 2004. First heat processed through V.D. on 02nd January' 2008. First heat processed through Alarc-jet on 13th August' 2008.

**Rolling Mills :** The rolling mills have Bar Mill and Wire Rod Mill. The Bar Mill has capacity of 1, 25,000 mt per annum and has been commissioned on 22.09.2008. It produces bars- rounds, RCS, spring, steel flats. The Wire Rod Mill has annual capacity of 2, 75,000 mt will be commissioned in May-June 2009.

#### Corporate Ispat & Alloys Ltd. (steel Division) :

Corporate Ispat & Alloys Ltd is a sister concern of JNIL, Raipur. Steel Melting Shop (SMS) has annual capacity of 4, 00,000 T and has been commissioned on 17.9.2008. Hot Strip Mill has annual capacity of 3, 00,000 T. It has been commissioned on 16.08.2008. It produces slabs, H.R. coils, Plain Carbon, Medium Carbon & High Carbon.