

VISA STEEL

Shaping the Future with Minerals & Metals



Automobile



Infrastructure



Engineering



Railways

STEEL PRODUCTS



Profile

VISA Steel Limited is a part of the Rs 5,000 Crore VISA Group, a minerals and metals conglomerate which has business interests in steel, power, international trading, shipping and mining. VISA Steel is a leading supplier of Special Steel, Ferro Chrome and LAM Coke.

Coke Oven Plant



Pig Iron Plant



Sponge Iron Plant





VISA Steel is setting up an integrated 1 million TPA Special and Stainless Steel Plant at Kalinganagar in Orissa. The first phase includes a 0.5 million TPA Special Steel Long Product Plant with 375 MW Captive Power Plant.

VISA Steel is also setting up a fully integrated 2.5 million TPA Steel Plant at Raigarh in Chhattisgarh. The first phase includes a 1 million TPA Steel Plant with 300 MW Captive Power plant.

VISA Steel is also setting up a Ferro Chrome Plant in Orissa through a joint venture with Baosteel of China.

Ferro Chrome Plant



Captive Power Plant



SMS & Rolling Mill





Manufacturing Facilities

1. COKE & IRON MAKING:

- Coke Oven Plant with capacity of 400,000 TPA with 8 batteries of 11 Ovens each with stamp charging facilities.
- Blast furnace with a capacity of 225,000 TPA.
- Sponge Iron Plant with 2x500 TPD DRI Kilns having a capacity of 300,000 TPA.

2. STEEL MAKING:

- Electric Arc Furnace having a capacity of 70 MT per heat supplied by SMS Siemag with Eccentric Bottom Tapping, Supersonic Oxygen & Carbon injection facility.
- Ladle Refining Furnace having a capacity of 70 MT per heat supplied by SMS Siemag with Bottom Argon purging & Semi Automatic Ferro Alloy charging facility.
- Vacuum Degassing having a capacity of 70 MT supplied by Siemens VAI.

3. CONTINUOUS CASTING:

3-strand billet / bloom caster of radius 12/21 meters with 12 meters length, Mould EMS & AMLC facility & TOCB (Turn Over Cooling Bed) supplied by Concast India.

As cast billet/bloom sizes - 160x160, 200x200, 200x250, 280x320 up to 320x400mm²

As cast rounds - 160, 200, 220 & 320 mm dia



4. ROLLING – BAR & WIRE ROD MILL:

Reheating Furnace - A 105 TPH Walking Beam type Reheating Furnace ensures uniform heating of billets to provide correct condition for rolling. The facility has been supplied by Tenova Hypertherm. The furnace can take billets of 12 meter long and 160x160 mm² size. Hot charging facility for billets is also present.

Bar and Wire Rod Mill - The State-of-the-art Combo Mill with capacity of 500,000 TPA has been supplied by SMS Meer. The Horizontal Vertical Continuous & Twist Free Rolling Mill is equipped with high water pressure descaler to ensure scale removal before rolling. The Rolling Sizes include Wire Rods in coil form (Sizes : 5.50 to 20 mm dia) and Straight Length (Sizes : Round – 8 to 70 mm dia, RCS – upto 65x65 mm², Flats – 50x5 to 100x25 mm², Hexagons – 23.5 A/F to 34 A/F mm), TMT Bars (Sizes : 8 to 40 mm dia), Angles (Sizes : 50x50x4 to 75x75x8 mm).

VISA Steel is accredited with ISO 9001: 2008 by Bureau Veritas Certification.





Our Products

Grades manufactured by VISA Steel - VISA Steel caters to multiple sectors comprising Automobiles, Railways, Defence, Infrastructure, Construction, Engineering and Oil & Gas Industry. The speciality steels for various applications are produced as per International Standards Specifications like American (SAE/ AISI), German (DIN), Japanese (JIS), British (EN) and Indian (IS). The manufacturing facilities at VISA Steel can produce a wide variety of grades suitable for various industries. Some of the grades are furnished below for ready reference:

- **Plain Carbon Steel** – En8, En8D, En9, 35C8, 45C8, C40, Ck45 etc.
- **Carbon Manganese Steel** – 20Mn2, 37C15, En15, SAE1541, ST52.3 etc.
- **High Carbon Steel** – R35 - R85, All SWRH & SWRS Grades, PC77, PC80 etc.
- **Chrome Steel** – 34Cr4, 41Cr4, 40Cr4B, 15Cr3, 17Cr3, En18 etc.
- **Chrome Manganese Steel** – 16MnCr5, 20MnCr5 etc.
- **Chrome Moly Steel** – En19, SAE4140, 42CrMo4, SCM415, SCM420 etc.
- **Nickle Chrome Moly Steel** – SAE8620, En353, En24 etc.
- **Boron Steel** – 10B21, 15B25, 15B41, 19MnB4, SAE1036B, 20MnCr5B etc.
- **Ball Bearing Steel** – SAE 52100, En31, 100Cr6 etc.
- **Free / Semi Free Cutting Steel** – En1A, 12L14, En8M, En15AM, SAE1141 etc.
- **Spring Steel** – En45, SUP7, SUP9, SUP11, 55Si7, 65Si7, SAE9254, 50CrV4 etc.



Quality Assurance

Our Quality Assurance Laboratory is equipped with the following state-of-the-art testing facilities both for cast products & rolled products:

Chemical Composition

- Optical Emission Spectrometer
- LECO for C & S
- LECO for H₂, O₂ & N₂

Internal Soundness

- Macro Etching
- Ultrasonic Testing Machine

Physical/Mechanical Properties

- Brinell Hardness Tester
- Rockwell Hardness Tester
- Impact Testing Machine
- Jominy Hardness Tester (Hardenability Testing)
- Universal Testing Machine
- Cold Upset Testing Machine
- Hot Upset Testing Machine
- Magnetic Particle Inspection

Metallurgical Properties

- Metallurgical Microscope with Image Analyser & Sample preparation unit for Testing of Microstructure, Grain Size, Inclusion Level & other metallurgical properties

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