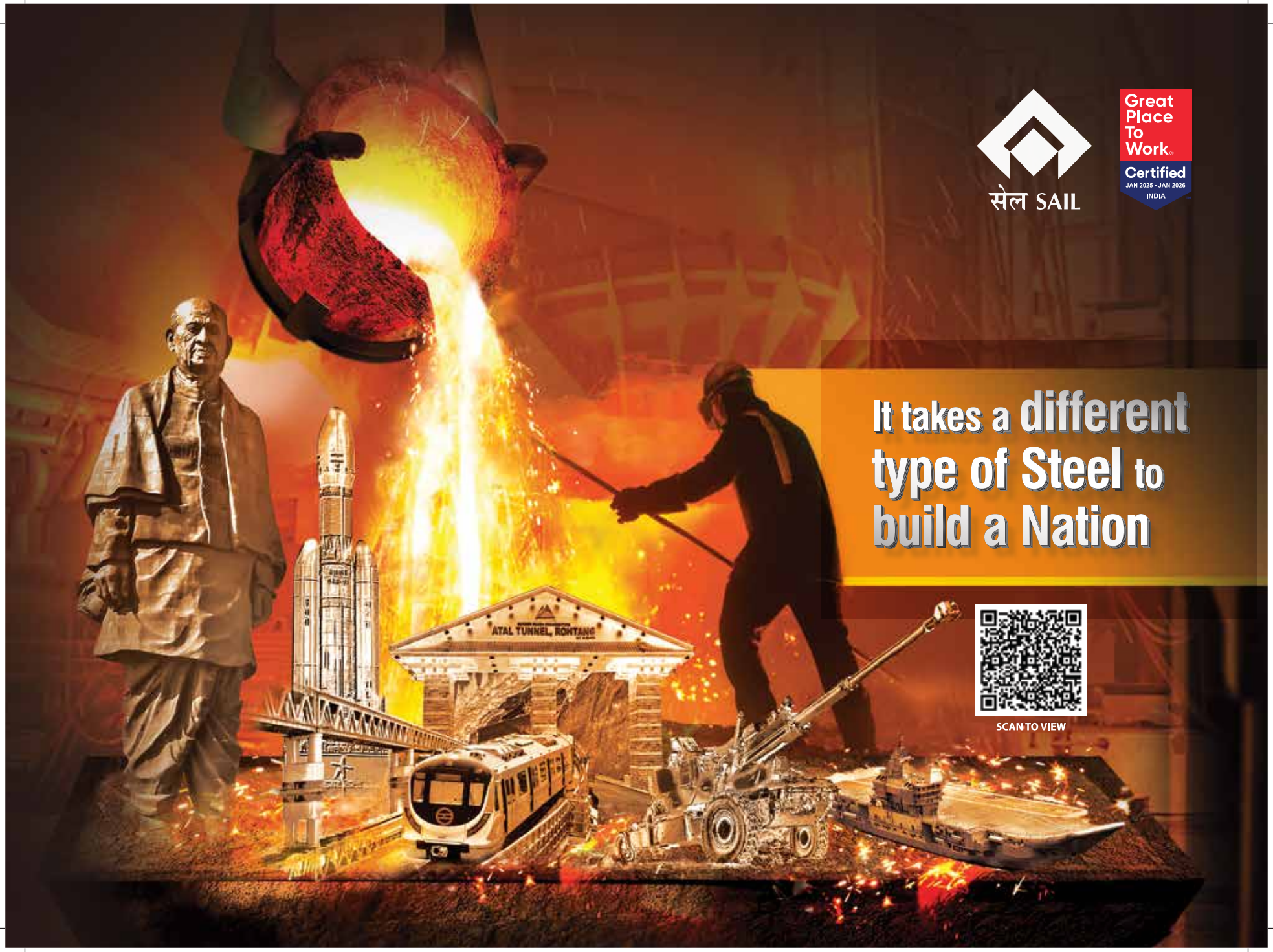

सेल SAIL
Great Place To Work.
Certified
JAN 2025 - JAN 2026
INDIA
It takes a different type of Steel to build a Nation
ATAL TUNNEL, ROHTANG
SCAN TO VIEW


सेल SAIL

# THE STEELY RESOLVE THAT BEATS FOR THE NATION

A Night View of IISCO Steel Plant, Burnpur

# Contents

Tapping of Hot Metal at Blast Furnace

सेल SAIL

# About SAIL

Steel Authority of India Limited (SAIL) was established in 1973 as a public sector enterprise to drive India's self-sufficiency in steel production. However, its roots go back to 1954, when Hindustan Steel Limited was formed to develop the country's steel infrastructure. Over the decades, SAIL has evolved into one of the India's largest steelmaker, contributing significantly to the nation's industrial growth. With state-of-the-art integrated steel plants and diversified product range, SAIL has played a key role in building India's infrastructure, from railways to skyscrapers.

SCAN TO VIEW

# Our Vision

To be a respected world-class corporation and the leader in Indian steel business in quality, productivity, profitability and customer satisfaction.

# Our Credo

- We build lasting relationships with customers based on trust and mutual benefit.
- We uphold the highest ethical standards in conduct of our business.
- We create and nurture a culture that supports flexibility, learning and is proactive to change.
- We chart a challenging career for employees with opportunities for advancement and rewards.
- We value the opportunity and responsibility to make a meaningful difference in people's lives.

# Core Values

### Customer Satisfaction
**Customer comes first every time**

Customer satisfaction is the first priority of every employee and the purpose of every job. We do not compromise this value because we believe that this alone can enable us to achieve the vision of attaining market leadership.

### Concern for People
**Talent of our people is our greatest asset**

We believe that developing competence and commitment of our people for enhancing their contribution is important for achieving customers satisfaction, and thereby the prosperity of the company and of the employees.

### Consistent Profitability
**Consistent Profitability is essential for growth**

We believe that consistent and significant profitability must be the essential outcome of all our activities. This is necessary for modernisation growth and market leadership.

### Commitment to Excellence
**SAIL does it better**

We are committed to harnessing the full potential of all our resources, through creativity, continuous improvements and teamwork. We believe that this is important for making SAIL the best organisation so that our customers employees and shareholders have a sense of pride.

# STEELMAKING PROCESS

# Steelmaking

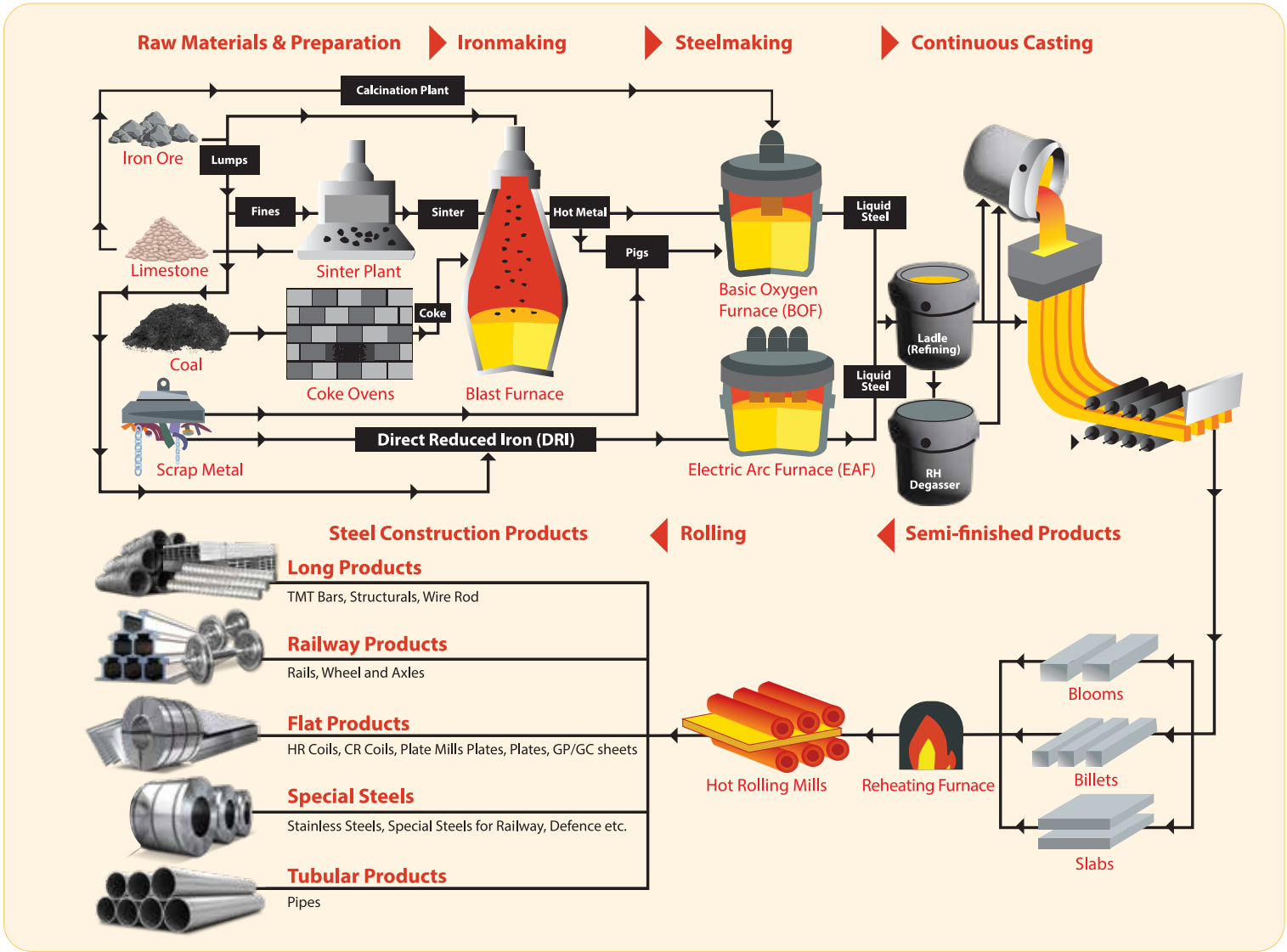
## SAIL employs a comprehensive steelmaking process that includes:

- **Raw Material Handling:** Handling raw materials like iron ore, coal, limestone, and dolomite etc.
- **Coke Production:** Conversion of coking coal into high-quality coke, a crucial reducing agent in blast furnaces.
- **Sintering:** Agglomeration of iron ore fines with fluxes and coke breeze to produce sinter for blast furnaces.
- **Iron Making (Blast Furnace Operation):** Production of molten iron (hot metal) by processing iron ore, sinter, and coke at high temperatures.
- **Steel Making (Basic Oxygen Furnace - BOF):** Refinement of hot metal into steel by blowing high-purity oxygen to remove impurities.
- **Secondary Refining:** Further purification and adjustment of steel's chemical properties to achieve specific grades.
- **Continuous Casting:** Casting of refined molten steel into semi-finished products like slabs, blooms, billets or Semi finished Structurals (Beam blooms).

- **Rolling Mills:** Processing of semi-finished products into finished steel items such as wire rods, TMT bars, and structural sections, HR Coils, CR Coils etc.
- **Finishing and Dispatch:** Final processing, including cutting, Packaging, tagging and loading for dispatching to customers.

SCAN TO VIEW

# This structured approach ensures high-quality steel production while adhering to environmental and safety standards



A Panoramic View of  Rourkela Steel Plant, Rourkela


NORTH
BSP

# PLANTS & UNITS


Ispat
Bhavan

# Bhilai Steel Plant (BSP), Chhattisgarh

Bhilai Steel Plant (BSP), established in 1959 with Soviet collaboration under India's Second Five-Year Plan, is a key unit of Steel Authority of India Ltd. (SAIL) and a top performer in the public sector. It was one of India's first three integrated steel plants, initially set up with a 1 MT capacity, later expanding to 7 MT through modernization.

BSP has been instrumental in supplying world-class rails to Indian Railways, including 130m single-piece rails and 260m welded panels. It also produces TMT bars, structurals, plates, and special steel for strategic sectors like defence, infrastructure, atomic energy, and space.

## Q1

When was Bhilai Steel Plant established, and what was its initial capacity?

### Ans.:

Established in 1959 in collaboration with the USSR, BSP commenced operations with an initial capacity of 1 million tonnes of crude steel per annum. First Blast Furnace of Bhilai Steel Plant was inaugurated on 4th February, 1959.

## Q2

What is the current production capacity of BSP?

### Ans.:

After the completion of the Modernisation & Expansion Programme (MEP), BSP has significantly increased its production capacities:

**Hot Metal:** 7.5 Million Tonnes (MT)

**Crude Steel:** 7 MT

**Saleable Steel:** 6.56 MT

## Q3

What are the primary products manufactured at BSP?

### Ans.:

BSP product range includes:

**Rails:** 13/26m, Long Rails (65-260m)

**Long Products:** TMT Rebars, Wire Rods, Channels, Angles, Crane Rails

**Flat Products:** Plates

**Rerollables:** Blooms, Billets, Slabs

**Others:** Pig Iron, and Coal Chemicals

## Q4

What are some notable achievements of BSP?

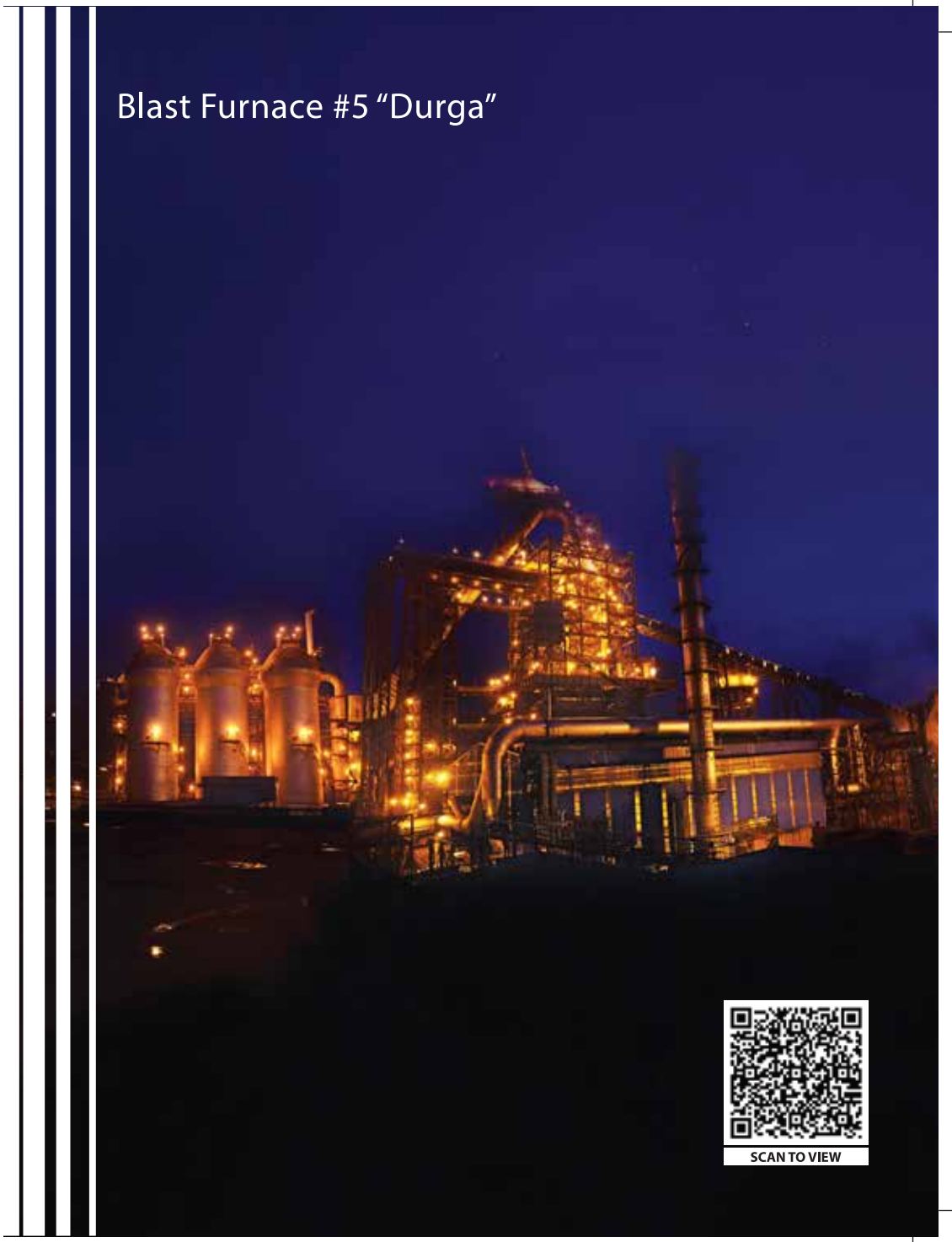
### Ans.:

Bhilai Steel Plant is the sole supplier of world-class rails to Indian Railways, producing the world's longest 130m rail and 260m welded rail panels. It has supplied steel for defence, space, atomic energy, and infrastructure projects, including highways, bridges, and tunnels. Bhilai has won the Prime Minister's Trophy for Best Integrated Steel Plant 11 times, a record in India.

# Rourkela Steel Plant (RSP), Odisha

Rourkela Steel Plant (RSP), India's first public sector integrated steel plant, was established with German collaboration. Its first Blast Furnace was dedicated to the Nation by President Dr Rajendra Prasad, on 3rd February 1959. Initially designed for 1 Million Ton (MT) Crude Steel capacity, the Steel Plant's current capacities are 4.65 MT per annum (MTPA) of Hot Metal and 4.4 MTPA Crude Steel with the existing operational units. The latest Modernisation and expansion of the Plant was dedicated to the Nation by PM Narendra Modi on 1st April 2015. RSP pioneered LD Steel making in India and is the sole producer of Silicon Steel, high-quality pipes, armour grade and quenched & tempered plates in SAIL. Its Odisha Group of Mines with a combined capacity of 20.05 MTPA of iron ore caters to SAIL as well as external customers.





## Q1

When was Rourkela Steel Plant established, and what was its initial capacity?

### Ans.:

RSP the 1st Steel Plant established under Public Sector soon after Independence was set up with German collaboration. It commenced operations in 1959 with an installed capacity of 1 MTPA Crude Steel. Its 1st Blast Furnace 'Parvati' was lighted up on 3rd February, 1959.

## Q2

What is the current production capacity of RSP?

### Ans.:

After Modernisation and Expansion, and the commissioning of a new state-of-the-art Hot Strip Mill, RSP's capacity with the units presently in operation are:

**Hot Metal:** 4.65 MTPA

**Crude Steel:** 4.4 MTPA

**Saleable Steel:** 4.3 MTPA

## Q3

What are the primary products manufactured at RSP?

### Ans.:

RSP's product range includes:

**Flat Products:** Plate Mill Plates, HR Plates & Coils

**Tubular Products:** ERW Pipes, Spiral weld Pipes and Coated Pipes

**Specialty Products:** CRNO (Cold Rolled Non Oriented) Steel, armour grade and quenched & tempered plates

## Q4

What are some notable achievements of RSP?

### Ans.:

Rourkela Steel Plant in India pioneered HR coil production. Its Special Plate Plant has supplied over 100,000 tonnes of special steel for defense applications like tanks, warships, and missiles. The plant has also contributed to national projects in space, railways, and energy, while prioritizing sustainability with zero-liquid discharge and energy efficiency.

# Durgapur Steel Plant (DSP), West Bengal

Durgapur Steel Plant (DSP) set up in late fifties is a leading producer of long products and is the pioneer in manufacturing and supply of forged Railway Wheels & Axles in the country. DSP started production with an initial crude steel capacity of 1 MPTA (million ton per annum) in 1959, which has been progressively increased to 1.8 MTPA during the modernization in nineties and further to 2.2 MTPA during recently completed Modernization & Expansion Plan (MEP).

## Q1

When was Durgapur Steel Plant established, and what was its initial capacity?

### Ans.:

Established in the late 1950s, DSP started production in 1959 with an initial crude steel capacity of 1 million tonnes per annum. First Blast Furnace of Durgapur Steel Plant was inaugurated on 26th December, 1959.

## Q2

What is the current production capacity of DSP?

### Ans.:

Through modernization efforts, DSP's capacity has been increased to 2.2 million tonnes per annum of crude steel. The current capacities are:

**Hot Metal:** 2.40 MTPA

**Crude Steel:** 2.20 MTPA

**Saleable Steel:** 2.12 MTPA

## Q3

What are the primary products manufactured at DSP?

### Ans.:

DSP product range includes:

**Long Products:** Joists, Channels, Angles, Structurals, Parallel Flange Beams, TMT Rebars

**Railway Products:** Wheels and Axles, Wheel & Axle Set

**Rerollables:** Narrow Slabs, Blooms & Round, Billets

**Others:** Pig Iron and Coal Chemicals

## Q4

What are some notable achievements of DSP?

### Ans.:

DSP is a leading producer and supplier of forged railway wheels and axles, playing a crucial role in supporting the Indian Railway. It has developed LHB wheels for Indian Railways, demonstrating its ability to adapt to modern railway technology. DSP is a major producer of long steel products, including structural steel, which is vital for infrastructure development

# Bokaro Steel Plant (BSL), Jharkhand

Bokaro Steel Plant (BSL), India's first Swadeshi steel plant, was established in 1965 with Soviet collaboration and later merged with SAIL in 1978. Located on the Damodar River, near Parasnath Hills, Bokaro is a vibrant Mini Bharat.

The plant began production in 1972 and expanded to 4.66 MTPA, specializing in flat steel products like HR/CR coils, plates, sheets, and galvanized products, catering to industries like automobiles, LPG cylinders, and infrastructure.

As SAIL's most profitable plant, Bokaro has significantly Aligned with the National Steel Policy 2017, it is now expanding by 2.5 MTPA to enhance flat steel production.

## Q1

When was Bokaro Steel Plant established and what was its initial capacity?

### Ans.:

Bokaro Steel Plant was incorporated as a limited company on 29th January 1964. The construction commenced on 6th April 1968, and the first Blast Furnace started operation on 2nd October 1972. The initial capacity was 1.7 million tonnes (MT) of ingot steel, achieved with the commissioning of the third Blast Furnace on 26th February 1978.

## Q2

What is the current production capacity of BSL?

### Ans.:

After Modernisation and Expansion, BSL's capacity presently in operation are:

**Hot Metal:** 5.25 MTPA

**Crude Steel:** 4.655 MTPA

**Saleable Steel:** 4.24 MTPA

In line with Nationals Steel Policy 2017, Bokaro Steel Plant is now going for 2.5 MTPA Brownfiled expansion based on 100% of flat products.

## Q3

What are the primary products manufactured at BSL?

### Ans.:

BSL product range includes:

**Flat Products:** HR Coils, HR Sheets and Plates , CR Coils and Sheets, GP Sheets and Coils, GC Sheets, Galvanized Steel

**Rerollables:** Slabs

**Others:** Pig Iron and Coal Chemicals

## Q4

What are some notable achievements of BSL?

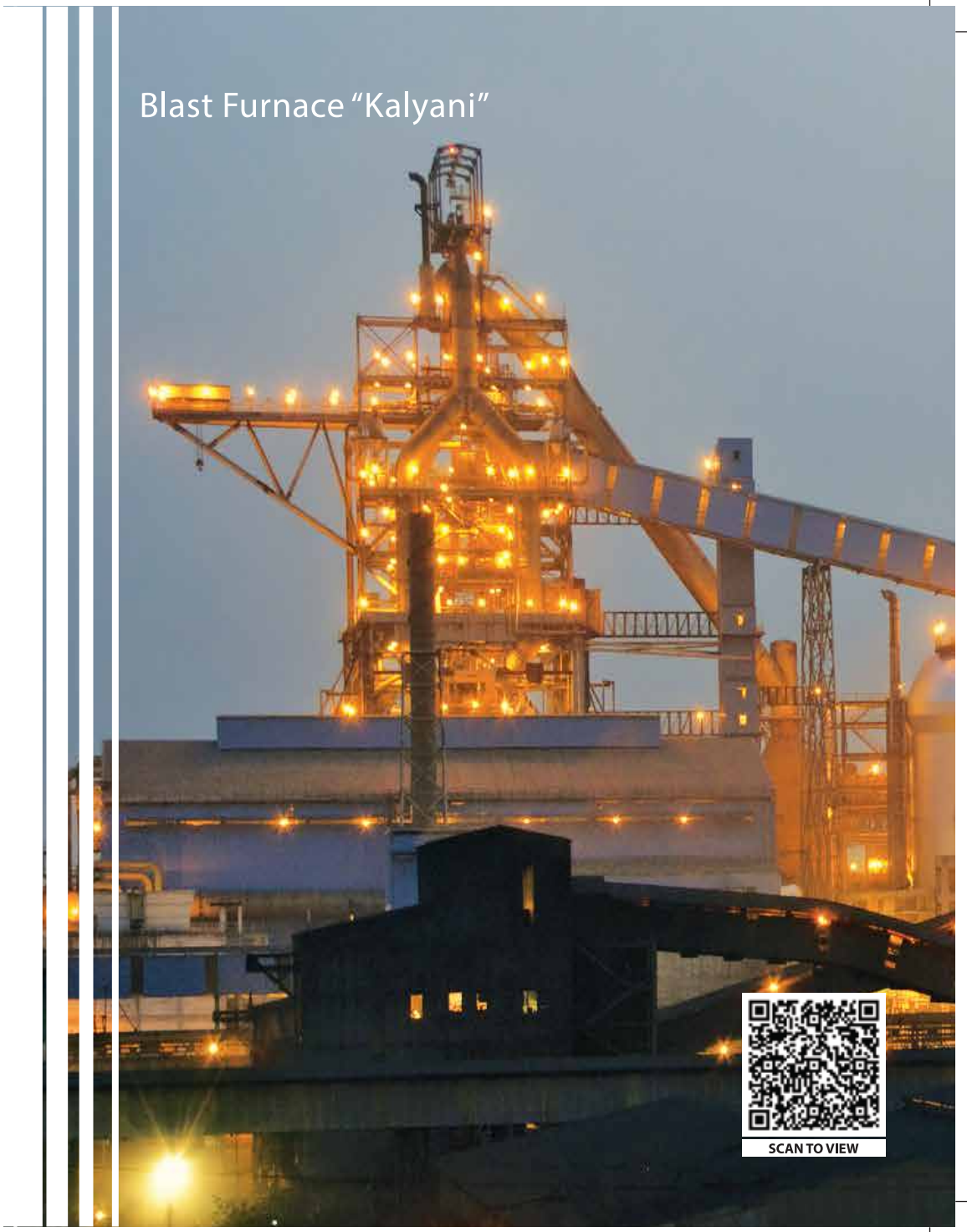
### Ans.:

Bokaro Steel Plant, India's first Swadeshi steel plant, is a leading producer of flat steel products, supplying industries like automobiles, LPG cylinders, and infrastructure. It has contributed steel to major national projects, including the Chenab Rail Bridge, Bandra-Worli Sea Link, Statue of Unity, and Indian Navy warships. As SAIL's most profitable plant, it has played a key role in Atmanirbhar Bharat, developing indigenous steel grades. Beyond steel.

# IISCO Steel Plant (ISP), Burnpur, West Bengal

One of India's oldest integrated steel plants, IISCO Steel Plant (ISP) was established in 1918 and merged with SAIL on 16th February 2006. Originally known as IISCO, it produced iron from an open-top blast furnace at Hirapur (now Burnpur), West Bengal, in 1922. Over the years, the plant has expanded its capacity, with crude steel production now reaching 2.5 MTPA.

Renowned for its high-quality iron & steel, ISP holds a strong market presence in select products. It is certified with ISO 9001:2015 (Quality Management), ISO 14001:2015 (Environmental Management), and ISO 45001:2018 (Occupational Health & Safety), ensuring excellence in operations and sustainability.



## Q1

When was IISCO Steel Plant established, and what was its initial capacity?

### Ans.:

Established in 1918, IISCO Steel Plant (ISP) is one of India's oldest integrated steel plants. It merged with SAIL on 16th February 2006.

## Q2

What is the current production capacity of ISP?

### Ans.:

After modernization and expansion, ISP's capacities are:

**Hot Metal:** 2.70 MTPA

**Crude Steel:** 2.50 MTPA

**Saleable Steel:** 2.37 MTPA

## Q3

What are the primary products manufactured at ISP?

### Ans.:

ISP's product range includes:

**Long Products:** Wire rods, TMT Rebars, Joists, Channels, Angles, Structurals, Parallerl Flange Beams, Special Sections ( Z-bar, Z- pilling, MS Arch)

**Rerollables:** Blooms, Billets

**Others:** Pig Iron and Coal Chemicals

## Q4

What are some notable achievements of ISP?

### Ans.:

IISCO is a key supplier of rails, structurals, and long products for railways, metro projects, and infrastructure while also contributing steel to defence, construction, and power sectors. Committed to sustainability, it focuses on energy efficiency, pollution control, and waste recycling.

# Special Steel Plants and Other Units

**Alloy Steels Plant:** Established in the mid-1960s, the Alloy Steels Plant (ASP) pioneered India's high alloy and special steel production, effectively shaping the nation's industry. Through a two-phase modernization, ASP expanded its capacity from an initial 100,000 tonnes of liquid steel and 60,000 tonnes of saleable steel to its current capacity of 234,000 tonnes and 184,000 tonnes, respectively. ASP utilizes state-of-the-art technology to produce world-class alloy and special steels."

**ASP's product range includes:** Alloy Steel Blooms, Billets & Rounds, Wear Resistant Plates, Crane Wheels & Assemblies, Forged Roles, Special Quality CC Slabs/ Forged Slabs & Ingots.

**Salem Steel Plant:** A special steels unit of Steel Authority of India Ltd, pioneered the supply of wider width stainless steel sheets / coils in India. The plant can produce austenitic, ferritic, martensitic & low-nickel stainless steel in the form of coils & sheets with an installed capacity of 1,46,000 tonnes / year in Cold Rolling Mill & 3,64,000 tonnes / year in Hot Rolling Mill. Its steel melting shop can produce 1,80,000 tonnes of slabs per annum.In addition, the plant has country's first top-of-the-line stainless steel blanking facility with a capacity of 3,600 tonnes / year of coin blanks & utility blanks / circles.

**SSP's product range includes:** Cold Rolled Stainless Steel, Stainless Steel Products, Hot Rolled Carbon & Stainless Steel Products, Coin Blanks and Circles, Micro Alloyed Carbon Steel.

**Visvesvaraya Iron and Steel Plant:** Pioneer in production of high quality Alloy & Special Steels and Pig Iron. Steel was produced through BF-BOF-LRF-VD route. The facilities included vaccum degassing, vacuum oxygen decarburisation, ladle refining furnaces, ingot teeming, continuous casting,
At present 1600 Tonnes-Hydraulic-High-Speed Forging Press, a fully automatic horizontal Long Forging Machine with high Programmable Logic Controller system for a semi-automatic and automatic mode of operation. VISL has an installed capacity of 2,16,000 tonnes of hot metal and 98,280 tonnes of alloy & special steels.


**VISL's product range includes:** High quality rolled & forged alloy & special steel products

**Chandrapur Ferro Alloy Plant:** Installed capacity of 1,90,000 TPY Ferro Manganese. The product range of CFP includes High Carbon Ferro Manganese, Silico Manganese and Medium Carbon Ferro Manganese. The Plant is accredited with Quality Assurance Certificate ISO 9001:2015 & ISO 14001:2015. Environment Management System CFP's major production facilities include two nos. of 33 MVA & one no. 45 MVA Submerged Electric Arc Furnaces for the production of ferro alloys, two nos. Manganese Ore Sintering Plants, Furnace gas based Power Plant, Mechanized Crushing and Screening System for Ferro Alloys and 1 MVA Electric Arc Furnace for the production of MC/LC Ferro Manganese with Lime Calcination and Manganese Ore Roasting Unit.

**CFP's product range includes:** High/Medium carbon terro-manganese, silico-manganese

# Central Marketing Organisation (CMO)

SAIL's Central Marketing Organisation (CMO) is India's largest industrial marketing setup, ISO 9001:2015 certified, and responsible for marketing SAIL's diverse range of steel products. Backed by a robust ERP system, CMO operates through a widespread network of 4 Regional Offices, 37 Branch Sales Offices, 5 Customer Contact Offices, and 36 Warehouses & Yards equipped with state-of-the-art material handling facilities, ensuring nationwide customer service.

Customer focus is paramount, with product specialization, order monitoring, feedback systems, and a proactive after-sales service. A customised Key Account Management process provides a single-window service to major clients. CMO also caters to customers in the remotest of areas, through its expanding Retail network, aiming to simplify steel procurement and bringing it to customers' doorsteps.

SAIL's International Trade Division (ITD) handles exports of SAIL steel. ITD works closely with both customers and production units to meet specific international requirements. SAIL has successfully established its brand globally, exporting a wide array of steel products to numerous countries across all continents, meeting stringent international certifications.

SCAN TO VIEW

# OTHER UNITS

- Research & Development Centre for Iron & Steel (RDCIS), Ranchi
- Centre for Engineering & Technology (CET), Ranchi
- Management Training Institute (MTI), Ranchi
- SAIL Safety Organisation (SSO), Ranchi
- SAIL Digital Transformation Division, Ranchi
- SAIL Refractory Unit (SRU), Bokaro (HQ)
- Collieries Division, Dhanbad
- SAIL Growth Works, Kulti
- Logistics & Infrastructure Department (L&I), Kolkata
- Environment Management Division (EMD), Kolkata

# SAIL STEEL FOR DIVERSE SEGMENTS


Construction & Infrastructure

Defence

Railways

Automobiles

Earth Moving Equipment

Engineering And Fabrication

Capital Goods

Pre-Engineered Buildings (PEB)

Construction Equipments

Pipes & Tubes

Drum & Barrels

White Goods

Transportation (Oil, Gas & Water)

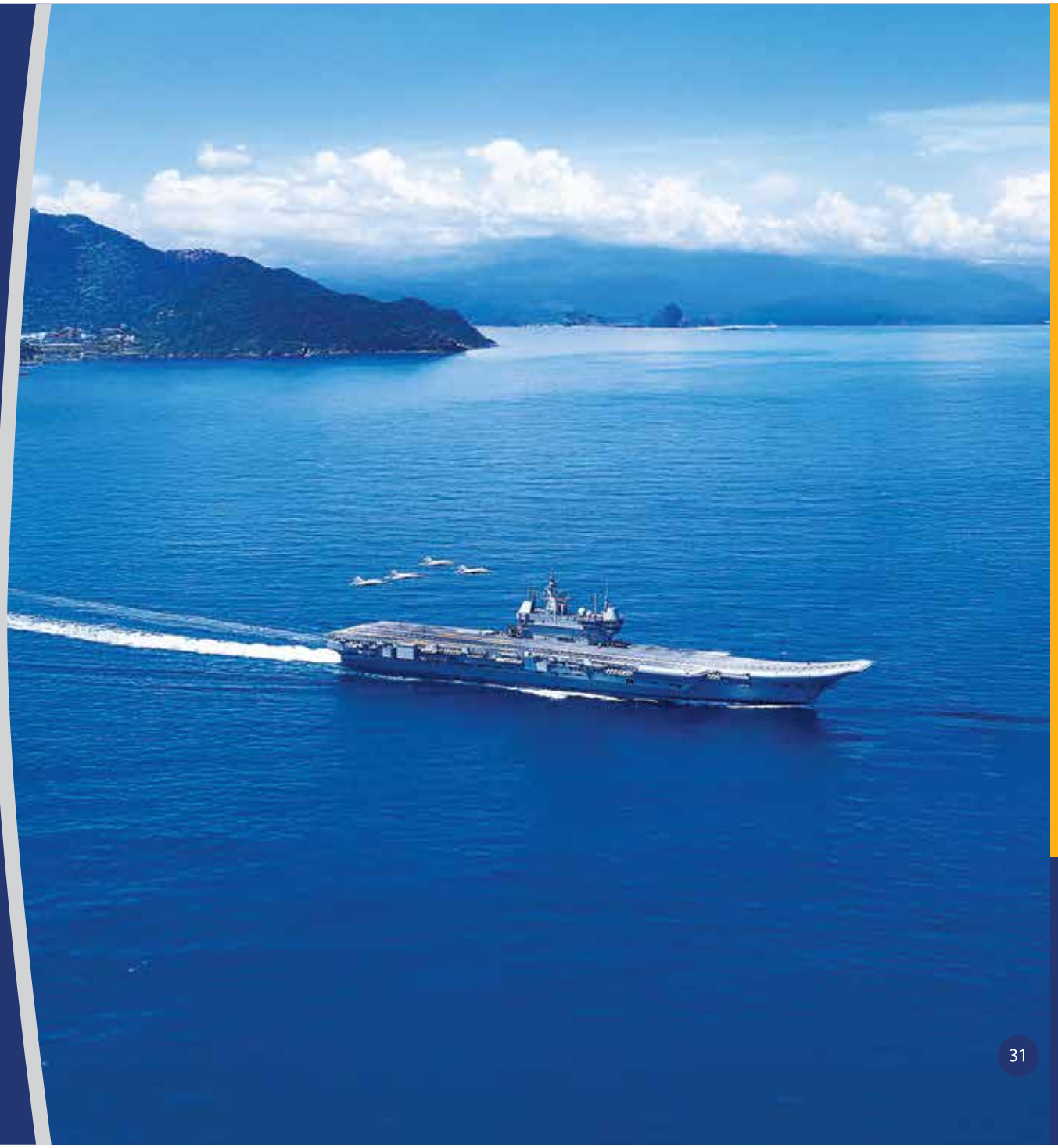
Tansmission Line Towers (TLT)

Power Distribution, Telecom

Thermal & Hydel Power

Electrical Equipments

Agricultural Equipments



# SAIL PRODUCTS

# SAIL PRODUCTS

# SAIL Structural Sections

## DON'T JUST CONSTRUCT, CREATE WITH SAIL

Precision-engineered parallel flange sections and conventional structurals, crafted to perfection. Our unwavering commitment to quality and dimensional accuracy empowers India's construction and infrastructure giants.

**Products:**

Channel, Angle, Parallel Beam (NPB/WPB)

**Why Choose SAIL Structural Sections?**

**Unmatched Versatility:** Our sections adapt effortlessly to your design vision.

**Superior Performance:** Engineered for maximum efficiency and strength.

**Rock-Solid Stability:** A foundation of trust for your structure.

**Lightweight Innovation:** Reduce material, save costs, and minimize environmental impact.

**Seamless Construction:** Faster, easier assembly for accelerated project timelines.

**Long-Term Value:** Built to last, improved life cycle cost, delivering lasting returns on investment.

SCAN TO VIEW

# SAIL Structural Sections

| Section | | Range (in mm) | Specification for Dimension & Sectional Properties |
|---|---|---|---|
| CHANNEL | **ISMC** | 75-400 | IS 808 |
| ANGLE | **ISA** | 50-200 | IS 808 |
| BEAM | **ISMB** | 100-600 | IS 808 |
| | **Parallel Beam (NPB/IPE)** | 100-750 | IS 12778/DIN 1025 |
| | **Parallel Beam (WPB/HE)** | 100-450 | IS 12778/DIN 1025 |

Grades as per IS 1852, IS 12779, EN 10034.

**Common Grades:** IS 2062/2011

Higher bearing structurals are also rolled as per customer's specifications. High Strength Structurals are also available.

**Structurals are also available in the following foreign specifications:**

JIS G-3101-SS400, BS-4360 Grades 40A, 43A, 43B, M 43C, 50B, 50C, EN-10025, S-275 JO, JR, S-335 JO, JR, DIN-17100 ST 37.2/44.2

**Applications:**

Residential, Commerical & Industrial Buildings, Bridges, Tunnels, Dams and Retaining Walls, Infrastructure, Refinery, Port, Power Plant, Metro etc.

# SAIL PRODUCTS


# SAIL TMT Bars

## STRENGTH THAT BUILDS THE NATION

SAIL TMT bars, crafted with advanced thermo-mechanical treatment, offer superior strength, ductility, and corrosion resistance, making them ideal for modern construction.

**Why Choose SAIL TMT Bars?**

**High Strength & Flexibility –** Withstands stress and seismic forces.

**Corrosion Resistance –** HCR grades ensure durability in harsh environments.

**Versatile Applications –** Available in Grades Fe 500D EQR; Fe 550 D EQR, Fe 600, Fe 500D HCR, Fe 550D HCR, Fe 600 HCR, Fe 500S

**Quality Assured –** Meets IS 1786:2008 standards for reliability.

**SAIL TMT Bars – Strength You Can Trust!**

SCAN TO VIEW

# SAIL TMT Bars

## SAIL TMT EQR

**Special Qualities:** High ductility (UTS/ YS ratio), higher elongation, uniform elongation and narrow range of YS, excellent bendability, good weldability, and high fatigue resistance on dynamic loading.

**Application:** Reinforced Concrete Construction (RCC) in buildings, bridges and other concrete structures. Particularly suitable for earthquake zone.

## SAIL TMT HCR

**Special Qualities:** In addition to SAIL TMT EQR, it possesses high corrosion properties.

**Application:** Reinforced Concrete Construction (RCC) exposed to coastal, marine, industrial corrosion or underground environment.

## SAIL TMT Fe 500S

**Special Qualities:** High ductility (UTS/ YS ratio), high uniform elongation, all of which are very much required for earthquake prone areas.

**Application:** Suitable for high earthquake prone zones, particularly Zone-IV and V.

## SAIL TMT Rock/ Roofbolt

**Special Qualities:** High strength, better toughness and excellent bond properties grouting materials due to its modified rib design.

**Application:** Underground mine and tunnel roof support, Slope stabilization in hills and Soil nailing/ anchoring.

| Diameter (mm) | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 28 | 32 | 36 | 40 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight (Kg/m) | 0.222 | 0.395 | 0.617 | 0.89 | 1.58 | 2.47 | 3.85 | 4.83 | 6.31 | 7.99 | 9.85 |

- 8mm/ 10mm can also be supplied in coil form.
- Supplied in standard length of 12 meters, however, specific lengths can be supplied with mutual agreement.
- 20 mm can also be supplied for Roof-Bolt applications
- **Earthquake & fire resistant**
- **Corrosion Proof**
- **Excellent bonding with Cement**
- **Life of every construction**

# SAIL PRODUCTS

# Wire Rods

## STRENGTH IN EVERY STRAND

SAIL produces high-quality wire rods essential for diverse industries, ensuring precision, durability, and reliability.

**Why Choose SAIL Wire Rods?**

**Wide Range:** Sizes from 5.5 mm to 22 mm, catering to various applications.

**Versatile Grades:** Low carbon, high carbon, electrode, forging, and cold heading quality.

**Superior Quality:** Clean steel through advanced refining processes.

**Multiple Applications:** Ideal for nails, cable armour, wire ropes, electrodes, and automotive parts.

**Certified Excellence:** ISO 9001:2015 certified for quality assurance.

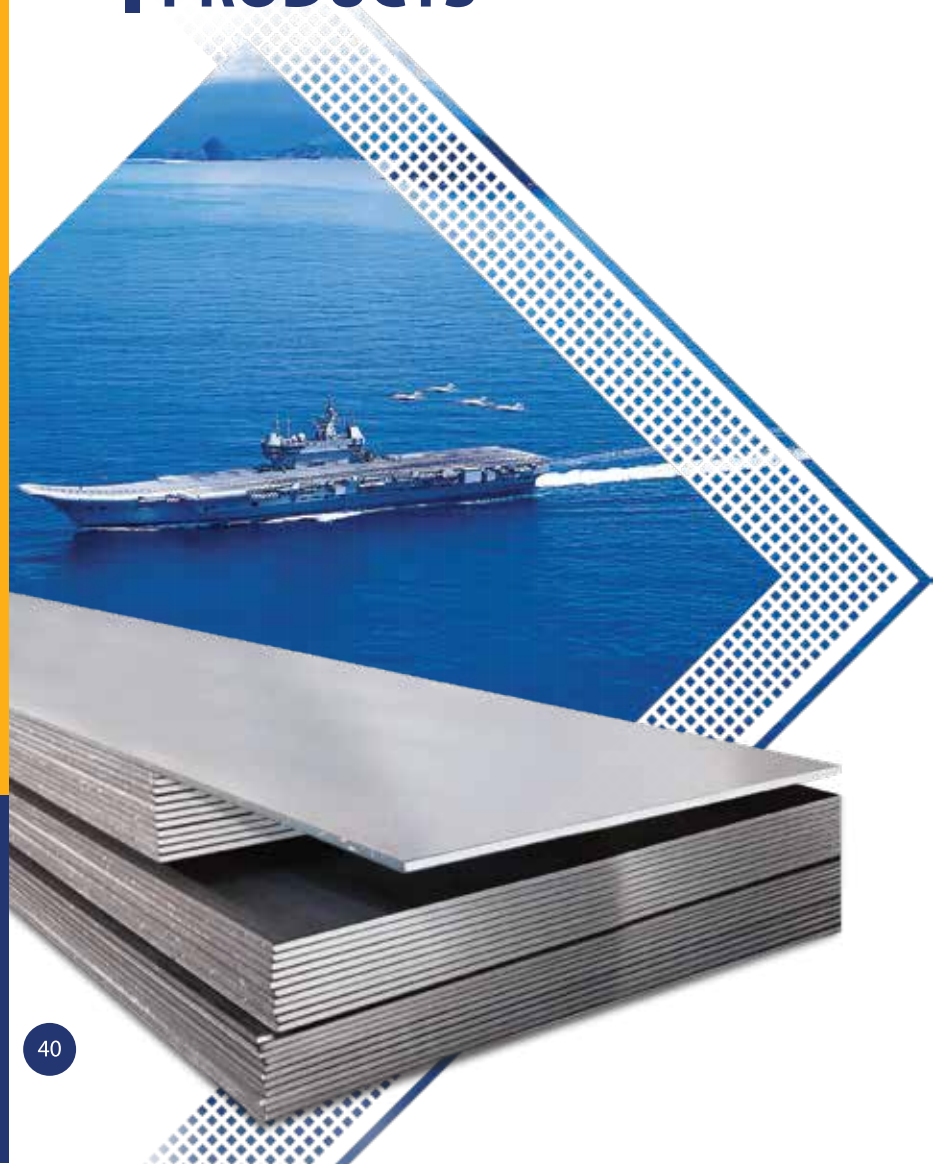
**SAIL – Powering Progress with Precision!**

SCAN TO VIEW

# SAIL Wire Rods

| Grades | Specification | Application |
|---|---|---|
| Low Carbon Grades | IS7887 Gr2,3,4,4M,6M | Nails, mesh, general purpose wires, industrial wires, agriculture wires, brush wires, galvanized wires and other general engineering purposes etc |
| Cable Armour Quality | IS 7887 Gr1 (CAQ) | Cable armour |
| High Carbon Grades | IS1079 : 2018<br>HC38B,HC52B,HC62B,<br>HC68B, HC72B,HC78B,<br>HC80B, HC82B,<br>HC78BCr, HC80BCr,<br>HC82BCr, HCT1130Cr | Wire rope, Needle wires, Chain Rivets, Umbrella Ribs, Piano Wire, ACSR Core Wire, Prestressed Concrete (PC) and Low Relaxation Prestressed Concrete (LRPC) |
| Electrode Grade | IS 2879 EWNR,<br>AWS A5.18 ER70S-6 (MIG)<br>EM12K | Stick electrode, continuous MIG electrode and other special electrodes |
| Cold Heading Grades | IS11169 26C10BT/ SAE15B25<br>IS11169 21C10BT/ SAE10B21<br>SAE 10B33, 19MNB4(M) | High tensile fastener |
| Forging grades | EN 8D, EN 8D CR,<br>EN 8A CR | Bright bars and auto components |

# SAIL PRODUCTS



# SAIL Plates

## STRENGTH YOU CAN BUILD ON

SAIL Plates, produced at Bhilai & Rourkela Steel Plants, deliver precision, strength, and reliability for diverse applications.

**Why Choose SAIL Plates?**

**Precision Manufacturing –** HAGC & TMCP ensure superior dimensional accuracy and metallurgical properties.

**Unmatched Quality –** Ultrasonic testing & strict inspections guarantee flaw-free plates.

**Versatile Range –** Available in IS 2062, ASTM & more, thickness 8mm-100mm, width 1500mm-4100mm, and length up to 15000mm.

**Advanced Technology –** Automated process controls, online thickness measurement & ultrasonic testing for top quality.

**Easy Traceability –** Spray paint & punch marking for seamless identification.

**SAIL Plates –** Precision, Strength & Reliability!

SCAN TO VIEW

# SAIL Plates

| Specification | Application |
|---|---|
| IS 2062:E250, E275 Grades A, BR BO&C<br>ASTM A36, 283<br>EN 10025-2:S235, 275 Grades JR, J0, J2<br>JIS G 3101 | General Structruals |
| IS2062 Grades with Cu<br>IRSM41 SAILCOR, HCRS (Cu+P)<br>ASTM A242M, 588M<br>EN10025-5:235&355 JOW, J2W, JOWP, J2WP<br>JIS 3114 | Atmospheric corrosion resistance |
| IS2002, IS2041<br>ASTM /ASME : 204, 285, 299, 387, 515, 516, 537<br>EN 10028-2 & 3<br>DIN 17155 HI | Boiler and Pressure vessels |
| ASTM 517 Grade F (Q&T)<br>ASTM ASA 537 $CL_2$ (Q&T) | Penstock |
| SAILHARD | Abrasion resistant |
| IS 2062 E 300, 350, 410 Grades A, BR, BO, C<br>IS 2062 E 450, 550, 600 Grades A, BR<br>IS 5986 Gr 325, 355, 420, 490<br>EN 10025-2:S355 Grades JR, J0, J2<br>Customised SAIL MA Grades<br>ASTM A 572 Gr 42, 50, 55<br>JIS G 3106 | High Tensile |
| Lloyds /ABS Grades A,B,D, AH/DH/EH-32/36<br>DNV Grades A, B, D, A/D/E-32/36,<br>DMR 249 | Shipbuilding |
| API : 5L Grade A, B, X42, X46, X52, X56, X60, X65, X70 | Oil & Gas pipe line manufacturing |
| Dead Soft Quality<br>SAIL MAG | Galvanizing pots & Special Engineering |
| HSFQ 410/450 (8-16 mm) | Auto components and Pre-Engineered Building (PEB)<br>Section for forming at ambient temperature |
| SAIL WR-400 (Q&T)<br>SAIL HARD | Earth Moving Equipment<br>Abrasion Resistent |
| Boiler Grades: IS 2002, ASTMA SA 515, SA 516, SA 537 CL I | Construction of boilers and pressure vessels |
| SAIL HITEN 690 AR | ATM Safe |

Plates supplied in International Standard will be dual certified with equivalent Indian Standards to comply with Steel Quality Control Order

# SAIL PRODUCTS

# SAIL HR Coils & Sheets

## FROM FOUNDATION TO FRONTIER – ENGINEERED TO ENDURE

Manufactured at state-of-the-art Hot Strip Mills, SAIL HR Coils deliver exceptional quality, precision, and reliability for diverse industries.

**Why Choose SAIL HR Coils?**

**Diverse Range –** Thickness: 1.2 mm - 25.4 mm, Width: 900 mm - 2100 mm.

**Precision Manufacturing –** AGC & high-speed rolling mills ensure superior accuracy & flatness.

**High Capacity –** Hot Strip Mill-II (RSP) with 3.0 MTPA capacity ensures consistent supply.

**Quality Assurance –** Meets IS 10748, IS 5986, IS 2062, with customizable chemical compositions.

**Customization –** Non-standard sizes & grades available to meet specific requirements.

**SAIL HR Coils –** Built for Strength, Designed for Performance!

SCAN TO VIEW

# SAIL HR Coils & Sheets

| Major Specifications | Application |
|---|---|
| IS 10748 Grades 1,2,3,4,5 | **Tube & Pipe Making** |
| IS 15113 Grades CR1, CR2, CR3, CR4<br>IS 15113 CR4/SAIL SOFT | **For Cold Rolling Purpose** |
| IS 2062 Grades E 250<br>IS 2062 Grades E 300, E 350, E 410, E 450<br>E 450 (SAILMA 300 to 450) | General Structural and Engineering Application |
| IS 2062 Grades with Copper<br>SAILCOR/IRSM-41 | Manufacturing of Corrosion Resistant Engineering Products<br>(Segments Wagon Building, Railways etc.) |
| IS 1079 Grade HRO, HR1, HR2, HR3, HR4<br>IS 6240<br>EN 10120, JIS G 3116 (SAIL High Strength LPG)<br>IS 15914, HS345 | Drawing, forming & General Engineering Purpose<br>For Manufacturing of LPG Cylinders<br>Export Quality LPG Cylinders<br>Lighter (Thinner) Cylinders |
| **HSFQ Grades** | |
| IS 5986 ISH410LA HSFQ350<br>IS 5986 ISH500LA HSFQ450<br>IS 5986 ISH550LA HSFQ500<br>IS 5986 ISH600LA HSFQ550 | Auto Components and Pre-Engineered Building<br>(PEB) (For Forming at Ambient Temperature) |
| **SAIL FORMING Grades** | |
| IS 5986 ISH430LA SAILFORM 350<br>IS 5986 ISH450LA SAILFORM 410<br>IS 5986 ISH500LA SAILFORM 450<br>IS 5986 ISH600LA SAILFORM 550 | Auto Components (For Forming at<br>high Temperature Hot Forming) |
| BSK 46/E 46, E-38, E34<br>IS 5986 Grade ISH 290S, 330S, 360S, 410S | Fabrication of Long and Cross Members for LCV, MCV<br>Flanging and Forming Purpose |
| Medium carbon grades (SAIL MC 40/45/50/60)<br>SAE 1040/1045/1055 | Chains, Hair Clip, Sprocket, Clutch Plate, Hacksaw Blade |
| SAE 1012<br>SAE 1020<br>SAE 1541<br>SAILRIM Grade 1,2 & 3<br>API 5L Grades B, X42, X46, X52, X56, X60, X70 (PSL1/2) | Manufacturing of Wheel Disk and Cold Formed Profiles<br>Manufacturing of Propeller Shaft<br>Manufacturing of Fork and Spokes for Two Wheelers<br>Manufacturing of Cycle Rims<br>Manufacturing of Pipes mostly for Oil and Gas sector |

# SAIL PRODUCTS

# SAIL CR Coils & Sheets

## WHERE PRECISION MEETS PERFORMANCE, DRIVING YOUR INDUSTRY FORWARD

SAIL Cold Rolled Coils, produced at our state-of-the-art Bokaro Steel Plant; represent the pinnacle of precision and quality. Utilizing advanced technology, we deliver cold rolled products that meet the exacting demands of modern manufacturing.

**Why Choose SAIL Cold Rolled (CR) Coils:**

**State-of-the-art Manufacturing:** Our new Cold Rolling Mill (CRM-III) features a Pickling Line Tandem Cold Rolling Mill (PLTCM) with twin pay-off and tension reels for endless rolling, laser welding, and automatic gauge and shape control.

**Enhanced Properties:** Bell Annealing Furnaces (BAF) with 100% hydrogen gas are used to improve mechanical properties and ensure a bright, clean surface.

**Superior Surface Finish:** Electrolytic Cleaning Lines (ECL) ensure the removal of oil and iron, providing a high-quality surface finish, crucial for automotive and other industries.

**Dimensional Accuracy:** Skin Pass Mill (SPM) processing refines thickness and flatness, with shape meter roll and electrostatic oiler for enhanced corrosion resistance.

**Efficient Handling:** Tension Leveler & Inspection Lines (TLIL) and Coil Packaging Lines ensure careful handling, measurement, and secure packaging for transportation.

**Quality Commitment:** Adhering to stringent quality standards with options for closer tolerances.

# SAIL CR Coils & Sheets

| Application | Delivery Conditions ( From BSL) | | Specifications* |
|---|---|---|---|
| Auto Parts | Material | Al Killed | 0.35-2.0 mm |
| | Tolerance on Thickness | ± 0.03 mm | |
| | Tolerance on Width | + 3/-0mm | |
| General Engineering & Fabrication | Surface Conditions | Blemish Free | Wide Range<br>876 mm-1580 mm |
| | Reflectivity | >90% | |
| | Flatness | ≤10 units | |
| Precision Tubes | r bar value (EDD) | 1.7 min | **GRADES**<br>(As per IS-513 /IS /ISO-16162)<br>CR1/CR2/CR3/CR4 |
| | Surface roughness | As per customer's requirement | |
| White Goods | Packaging | Moisture Proof | |
| Drum & Barrel | Oiling | Rust Preventive Oil ($0.5\text{-}3.0 m/m^2$) | *Other thickness/widh combination can be supplied with mutual consent |

SCAN TO VIEW

# SAIL PRODUCTS

# SAIL GP Coils

## GALVANIZE YOUR WORLD: SAIL JYOTI - STRENGTH AND SHINE COMBINED

SAIL, a trusted name in Indian steel manufacturing, presents SAIL JYOTI Galvanised Plain (GP) Coils – the ideal choice for durable, long-lasting, and economical solutions. These coils are produced by applying a protective zinc coating to steel, preventing rust and ensuring a bright surface finish.

**Why Choose SAIL JYOTI GP Coils:**

**Corrosion Resistance:** The galvanization process protects the steel from rusting, enhancing its lifespan.

**Durability and Strength:** SAIL JYOTI products are tough and sturdy, capable of withstanding various environmental conditions.

**Bright Finish:** The galvanised steel has a bright surface finish, contributing to the aesthetic appeal of the final product.

IS 277/2018 Compliance: SAIL JYOTI galvanized products are manufactured to conform to IS 277/2018 standards.

**Grades:**

• GP (Ordinary) • GPH (Ordinary Hard) • GPL (Drawing/Lock Forming) • GPD (Deep Drawing)

# SAIL GP COILS

| Class of Coating | Min. Avg. Coating Triple Spot Test g/m² |
|---|---|
| 600 | 600 |
| 550 | 550 |
| 450 | 450 |
| 350 | 350 |
| 275 | 275 |
| 220 | 220 |
| 200 | 200 |
| 180 | 180 |
| 120 | 120 |
| 100 | 100 |
| 90 | 100 |
| 80 | 100 |

| SIZE* | |
|---|---|
| **BSL (GP Coils)** | 0.4-2.0mm |

*Other thickness/width combination can be supplied with mutual consent

| Material | Application |
|---|---|
| **GP Coils** | Panelling, door frames, Shutters, Ac ducts, coolers, storage bins auto sector, ice box, drums, buckets, tubs, tanks, trunks etc. |

- **Rust resistant due to uniform coating of Zinc**
- **Economical**
- **Superior quality**
- **Light weight but strong**
- **Leak proof & long lasting**
- **Available in different thicknesses**

SCAN TO VIEW

# SAIL PRODUCTS

# SAIL Rail Products

## FORGING CONNECTIONS, DRIVING GROWTH

SAIL rails, manufactured at Bhilai Steel Plant, provide strength, durability, and high performance, forming the backbone of India's railway infrastructure.

**Why Choose SAIL Rails?**

**Diverse Profiles –** Available in R-52, R-60 for varied load & speed needs.

**Long Rail Panels –** Up to 260m for enhanced track stability & lower maintenance.

**High Strength & Wear Resistance –** Head Hardened & Chromium grades for longevity.

**Special Rail Steel –** Includes Niobium, Vanadium, Corrosion-Resistant Alloys for tough conditions.

**Global Standards –** Meets EN, JIS, and developing 68 kg & asymmetric rails.

**SAIL Rails –** Strong, Reliable, Built for the Future!

SCAN TO VIEW

# SAIL RAIL PRODUCTS

**Bhilai Steel Plant**

| Profile | Sectional Wt kg/m | Standard Length (metres) | Mill |
|---|---|---|---|
| R-52 | 51.89 | 13, 26, 130, 260 | Rail & Structural Mill, Bhilai Universal Rail Mill, Bhilai |
| R-60 | 60.21 | 13, 26, 130, 260 | Rail & Structural Mill, Bhilai Universal Rail Mill, Bhilai |

Product nomenclature for 13m & 26 m is "RAIL" and for 130 m & 260 m is " LONG RAIL PANEL:.

**Specifications**

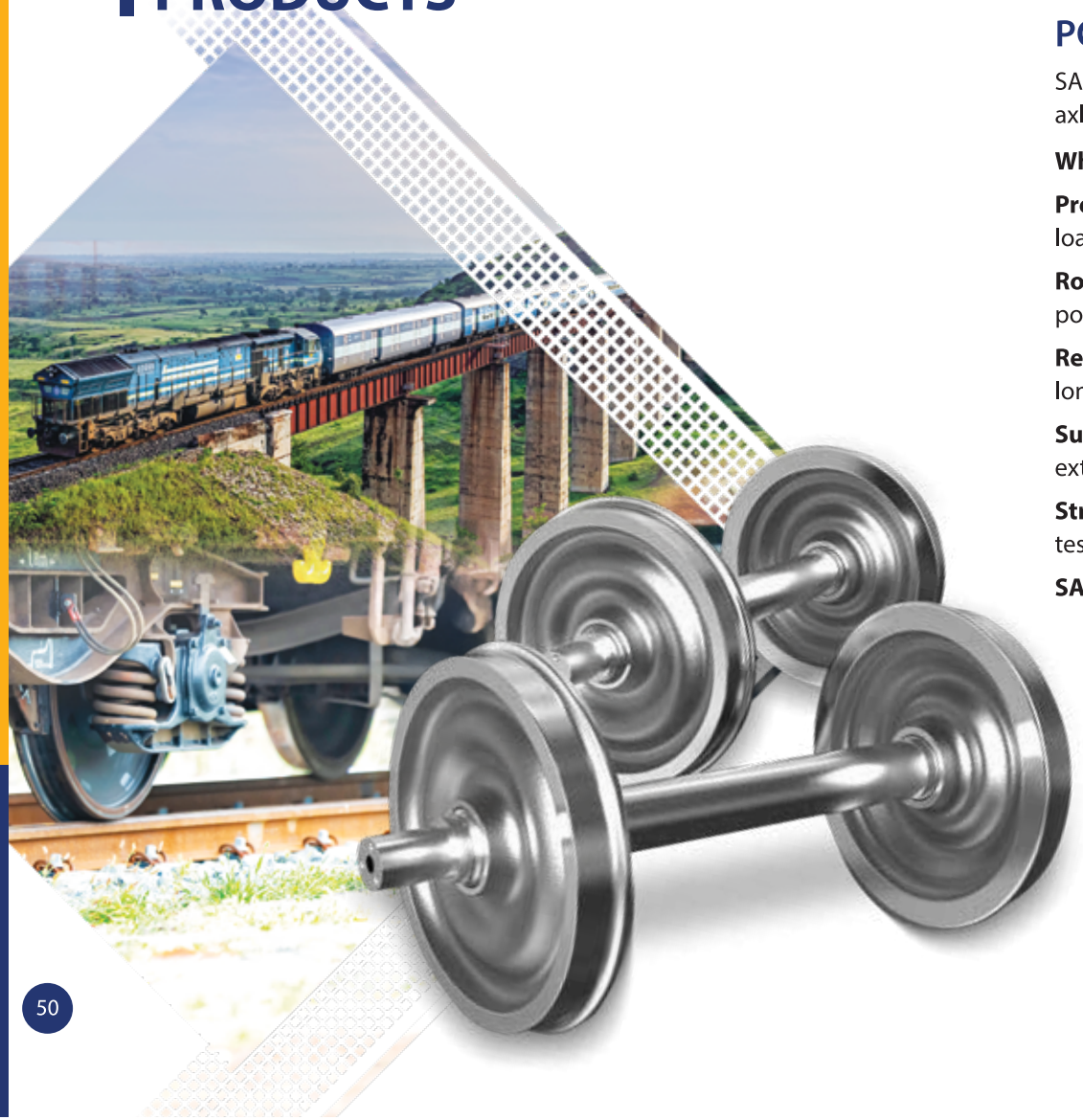
| Grades | UTS (MPa) min | Application (Speed of train in km/hr) |
|---|---|---|
| A) Prime Quality Rails | | |
| 880/R260 | 880 | >50 |
| Head Hardened ( 1080 HH) | 1080 | >50 |
| Chromium (1080 Cr) | 1080 | >50 |
| R 350 HT | 1175 | >50 |
| B) Special Rail Steel | | |
| Niobium (NB) | 880 | >50 |
| Vanidium (VN) | 880 | >50 |
| C) Corrosion Resistant Rail Steel | | |
| Copper-Molybdenum (CM) | 880 | >50 |
| Nickel, Chromium, Copper (NC) | 880 | >50 |
| D) Industrial use | | |
| IRST-T-12-IU | 880 | >50 |
| E) Asymmetrical RAILS END FOR GED AIEI | 880 | >50 |

Note:

1. Hydrogen content 1.6 ppm Max & Aluminium - 0.015 max. 2. Bhilai Steel Plant has In-house forging facility for TWA RAILS.

3. Bhilai Steel Plant can also produce rails as per specifications of the union of international railways and other foreign specification, like British standard or Japnese industrial standards if sufficient orders are available. 4. BSP can supply special Steel RAILS depending on order size.

# SAIL PRODUCTS



# SAIL Wheels & Axles

## POWERING EVERY JOURNEY

SAIL is one of the largest suppliers of forged wheels & axles from its Durgapur Steel Plant.

**Why Choose SAIL?**

**Precision-Engineered Wheels –** Built to bear heavy loads and ensure smooth movement.

**Robust Axles –** Designed for strength and seamless power transmission.

**Reliable Wheel Sets –** Optimized for stability and long-term performance.

**Superior Steel Alloys –** Engineered to withstand extreme stresses.

**Stringent Quality Checks –** Ultrasonic and hardness testing ensure top-tier safety.

**SAIL – Driving Railways Forward!**

SCAN TO VIEW

# SAIL Wheels & Axles

## Durgapur Steel Plant: Details of Wheel, Axles and Wheel Sets

| Item | Weight per piece, kg | Wheel tread dia, mm |
|---|---|---|
| 16.25T BG Coach Wheel | 384 | 920 |
| Loose Axle BG Coach | 378 | - |
| Diesel Loco Wheel WDG4 | 528 | 1097 |
| Loco Wheel 'S' Shaped | 528 | 1097 |
| MG Loco Wheel | 421 | 970 |
| WDG 4 | 1098 | 528 |
| WAP 5 | 1092 | 535 |
| WAG 9 | 1098 | 554 |
| EMU | 952 | 423 |
| LHB | 918-921 | 326 |

All the above items are as per the relevant drawings.

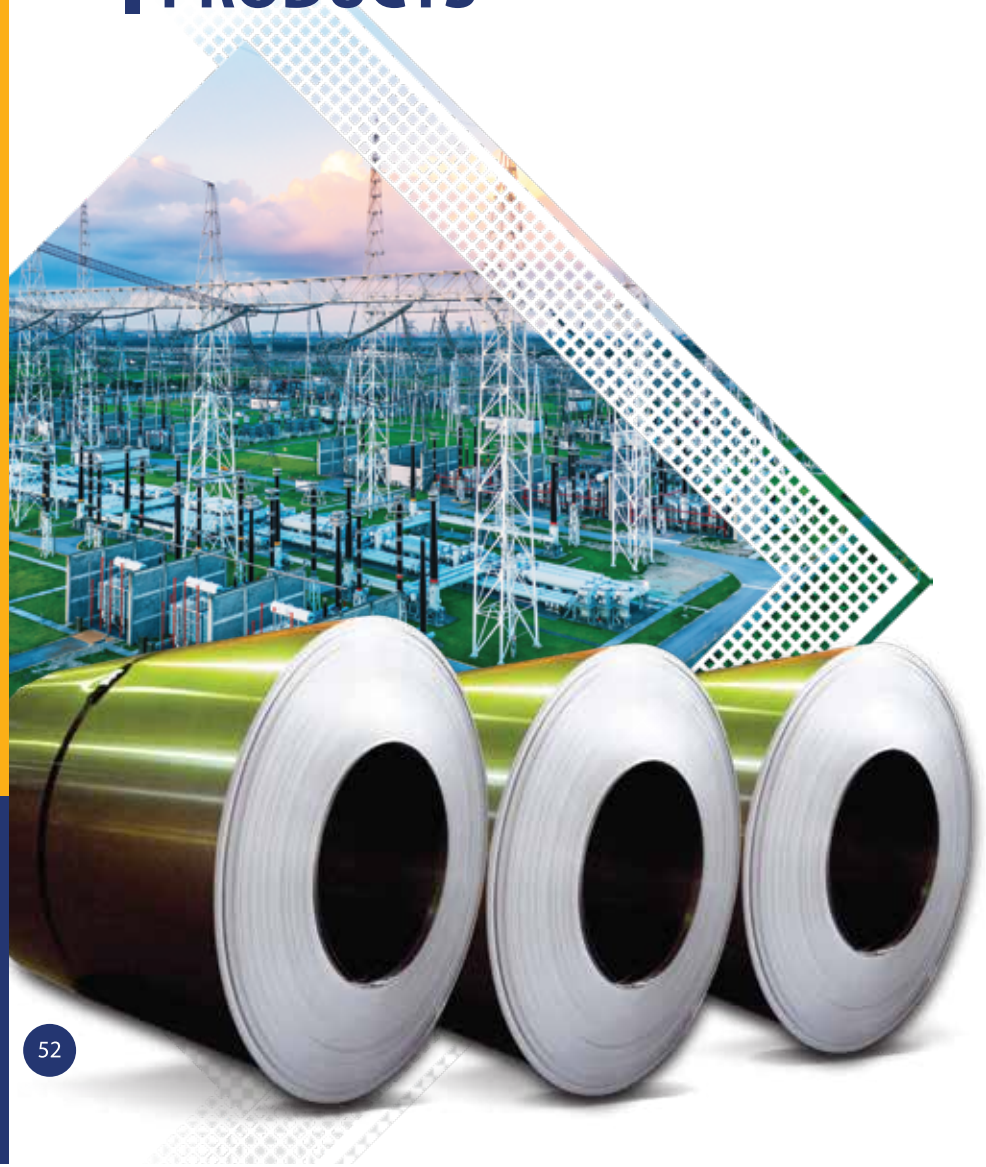
## Applications

| Specification | Application |
|---|---|
| IRS : R-34/03 | Loco Wheels |
| IRS : R-19/93 | BG Coaching and other Wheels |
| IRS : R-16/95 | BG Coaching Axles |

Wheels are 100% rim-sprayed, tempered and hardness tested along with ultrasonic testing in IRS : R-19/93 and IRS : R-34/03 specifications.

1. DSP is developing Micro alloyed coaching Wheel & Axels for supply to Railways.
2. DSP has the capability to produce 22.9T Axie load Box-N Type Wheels. Axles and wheel sets depending on order size.
3. DSP is also producing Metro Coach Wheel and NG Coach Wheel.
4. DSP is in the process of developing Vande Bharat Wheel indigenously.

# SAIL PRODUCTS



# Electrical Steels

## POWERING THE NATION'S ELECTRICAL BACKBONE

SAIL's Electrical Steel, produced at the Silicon Steel Mill (SSM), Rourkela Steel Plant (RSP), is essential for electrical equipment manufacturing.

**Why Choose SAIL Electrical Steel?**

**High-Quality CRNO Steel –** Precision-made for superior performance.

**Diverse Grades & Sizes –** Tailored to meet varied industry needs.

**Advanced Manufacturing –** Includes BUST Line, Anneal & Pickle Line, 4-High Reversing Mill, Tandem Anneal Line, Slitter Line, and Cut-to-Length Line for precise processing.

**Insulation & Coating –** Available in C-3 & C-6 coatings for specialized applications.

**Customizable Dimensions –** Standard widths: 950 & 1000 mm, with options for 1010 mm & 1050 mm

**SAIL Electrical Steel – Reliability & Precision**

SCAN TO VIEW

# Electrical Steels

| Insulation Designation | Type of Coating | Coating Thickness (Microns) | Applications |
|---|---|---|---|
| C-3 | Organic | 1 to 2 | Air/Oil cooled medium size power and distribution transformers, medium-sized continuous duty rotating electrical machinery |
| C-6 | Semi-organic | 1 to 2 | Applications requiring stress-relief annealing treatment. Extremely useful for stamped parts of hermetically sealed compressors used in refrigeration system |
| C-6 | Semi-organic | 4 to 6 | Used for traction motors in locomotives by Indian Railways |

**BIS Specification - IS : 648**

**Standard Width**

The standard width of CRNO Coils are 950 and1000 mm, Other sizes are negotiable. We also supply in 1010 mm & 1050 mm widths.

**Coil Weight**

Up to 6.6 tonnes

# SAIL PRODUCTS

# SAIL Pipes

## ENGINEERED FOR STRENGTH, DESIGNED FOR RELIABILITY

SAIL delivers robust and dependable piping solutions, crafted to meet the demands of diverse industries.

**Why Choose SAIL Pipes?**

**Wide Diameter Range –** 8 5/8" to 64" OD for versatile applications.

**Variable Thickness –** 4.0 mm to 14.5 mm for enhanced strength & durability.

**Customizable Lengths –** 6.2 m to 13 m to suit project needs.

**High-Quality Grades –** Available in API 5L GR-A, GR-B, IS 3589, IS 4270, ASTM A53, CRLA, and more.

**Strict Quality Control –** Advanced manufacturing ensures strength, reliability, and longevity.

**SAIL Pipes – Built to Perform, Made to Last!**

SCAN TO VIEW

# SAIL Pipes

## ERW Pipes

In grade IS 3589 Fe 330, Fe 410, Fe 450, IS 4270 and ASTM A53 Gr. A & B, API 5LX Gr B PSL-1

| Diameter (Inch) | Thickness (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 8 5/8 | 4.0 | 5.2 | 5.6 | 6 | 6.4 | 7.1 | 7.9 | 9.5 | 10 |
| 10 3/4 | 4.0 | 5.2 | 5.6 | 6 | 6.4 | 7.1 | 7.9 | 9.5 | 10 |
| 12 3/4 | 4.0 | 5.2 | 5.6 | 6 | 6.4 | 7.1 | 7.9 | 9.5 | 10 |
| 14 | 4.0 | 5.2 | 5.6 | 6 | 6.4 | 7.1 | 7.9 | 9.5 | 10 |
| 16 | 4.5 | 5.2 | 5.6 | 6 | 6.4 | 7.1 | 7.9 | 9.5 | 10 |
| 18 | 4.5 | 5.2 | 5.6 | 6 | 6.4 | 7.1 | 7.9 | 9.5 | 10 |

Pipes can be supplied with rust preventive coatings like varnish, red oxide, epoxy powder, 3LPE coating, fusion bonded coating etc.

## SW Pipes

In grades IS 3589 Fe 330, Fe 410, Fe 450 and IS 5504

| Outer Diameter | |
|---|---|
| OD (Inch) | OD (mm) |
| 20 | 508 |
| 24 | 609.6 |
| 28 | 711.2 |
| 32 | 812.8 |
| 36 | 914.4 |
| 40 | 1016 |
| 44 | 1117.6 |
| 48 | 1219.2 |
| 52 | 1320.8 |
| 56 | 1422.4 |
| 60 | 1524 |
| 64 | 1625.6 |

Pipes can be supplied with rust preventive coatings like varnish, red oxide, Fusion bonded epoxy powder coating 3LPE coating, etc. Other ODs between 20" and 64" can also be produced.

# SAIL PRODUCTS

# SAIL Stainless Products

## STRENGTH, STYLE & DURABILITY

SAIL, Salem Steel Plant offers premium quality, corrosion-resistant, aesthetic, good strength to weight ratio, hygienic, suitable for high temperature applications, higher impact resistant and 100% recyclable products that is available in wide range of surface finishes.

**Why choose SAIL Salem Stainless Steel?**

**The Brand –** *SAIL SALEM STAINLESS* – registered trade mark and known brand backed by SAIL and decades of metallurgical expertise.

**The Quality –** *You can count on* – Precise dimensional and other quality controls by ISO certified processes meet International Standards.

**The Production –** *State of the art* – produced through EAF-AOD-LF-CCS route.

**The Sustainability –** Stainless steel produced with lesser Carbon foot print and all the products has longer life span and are 100% recyclable.

**Make in India** - *Global Reach* – Develop and supply special products substituting imports.

**Technical support & Customization –** Deeply experienced team provides technical assistances and tailored solutions for specific customer needs.

SCAN TO VIEW

# SAIL Stainless Products

Salem Steel Plant produces a wide range of hot rolled/cold rolled coils and cut lengths (sheets) in austenitic, ferritic, and martensitic grades of stainless steel conforming to ASTM, BIS and various other specifications in a variety of sizes and finishes. Customer specifications with parameters other than indicated here also can be made on mutual agreement

| Hot Rolled Stainless Steel | |
|---|---|
| Thickness | 2.5 - 8.0 mm |
| Width | 750 - 1275 mm |
| Coil ID | 762/610 mm |
| Condition | Annealed and Pickled |
| Edge | Mill Edge |
| Sheet | 1500 to 6300 mm |

| Cold Rolled Stainless Steel | | |
|---|---|---|
| Coil | | Sizes (mm) |
| Dimension | Range (mm) | Standard Sizes (mm) |
| Thickness | 0.3 to 6.00 | 0.30, 0.40, 0.50, 0.55, 0.63, 0.70, 0.80, 0.90, 1.00, 1.25, 1.50, 1.50, 2.00, 2.50, 2.80, 3.00, 3.15, 3.40, 4.00, 5.00, 6.00 |
| Width | 50 to 1250 | 1000, 1250 |
| Inner Diameter | 406, 508 or 610 | |
| Sheet/Plate | | Sizes (mm) |
| Dimension | Range (mm) | Standard Sizes (mm) |
| Thickness | 0.5 to 6.00 | 0.50, 0.55, 0.63, 0.70, 0.80, 0.90, 1.00, 1.25, 1.50, 2.00, 2.50, 2.80, 3.00, 3.15, 3.40, 4.00, 5.00, 6.00 |
| Width | 600 to 1250 | 1000, 1250 |
| Length | 500 to 4000 | 1500, 2000, 2500, 3000, 3500, 4000 |

**Standard Grades**

**Standard Grades Produced are:**
301, 301L, 301LN, 304, 304L, 304LN, 309S, 310S, 316, 316L, 321
N1, N2, N3, N5, N6, N7, SSLN4, 204Cu
409, 409L, 409M, 410, 410S, SSBS, 410DB, 420, 430, 439, 441

**Finishes Produced**

**Standard Finishes Produced are:**
HR Products : NO1, HRA, HRB
CR Products : 2D, 2B, CR, TR, NO3, NO4, 2J, DF, NO8
Special finishes like Moon Rock, Honey Comb, Stripe, Slip Free, etc. are also produced for Decorative and Industrial applications.

# SAIL SeQR TMT Bars

## STRENGTH AND SAFETY REDEFINED

At SAIL, we deliver high-quality steel solutions for modern construction. SeQR TMT Bars are our latest innovation, offering superior strength, durability, and performance to meet India's evolving infrastructure needs.

**Why Choose SeQR TMT Bars?**

**Unmatched Strength & Flexibility:** SeQR TMT Bars combine high tensile strength with superior flexibility, making them ideal for earthquake-resistant structures in seismic zones.

**Corrosion Resistance:** Built to withstand harsh environments, these bars resist rust, ensuring long-lasting durability in coastal and humid regions.

**Enhanced Bonding with Concrete:** Our unique rib pattern improves bonding with concrete, providing greater structural integrity and safety for buildings.

**Fire Resistance:** With high thermal stability, SeQR TMT Bars retain their strength in extreme temperatures, enhancing fire safety for high-rise structures and factories.

**Eco-Friendly Manufacturing:** SAIL's energy-efficient production methods reduce carbon emissions, supporting sustainable construction practices.

**Applications**

SeQR TMT Bars are perfect for residential buildings, commercial projects and industrial facilities, offering unmatched resilience and strength.

**Why SAIL?**

Backed by SAIL's legacy, SeQR TMT Bars undergo rigorous quality checks to meet industry standards. Easily accessible across India through our widespread Retail channel, SeQR TMT is the trusted choice for construction demanding superior strength and safety.

**Choose SAIL SeQR TMT Bars—**strength, durability, and sustainability for the future of construction.

SCAN TO VIEW

# BUILDING INDIA'S ICONS

# Building India's Icons

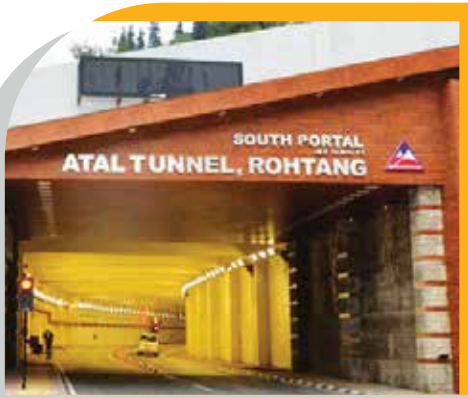
## Space Missions

SAIL supplied crucial steel for multiple Indian space missions, including Chandrayaan's cryogenic engine, Mangalyaan, Gaganyaan's launch vehicle, and MDN-250 steel for Aditya L1 mission.

## INS Vikrant (India's First Indigenous Aircraft Carrier)


SAIL powered India's self-reliance by supplying 30,000 tonnes of specialized DMR 249 Grade steel for the indigenous aircraft carrier INS Vikrant. The crucial Grade 249 A and B steel shaped the hull, interiors, and flight deck.

## Atal Tunnel




SAIL supplied over 9000 tonnes of steel in the construction of the Atal Rohtang Tunnel in Himachal Pradesh. This tunnel, set to be the world's longest at over 3000m altitude, highlights SAIL's crucial role in building vital national infrastructure.

## Chenab Bridge

SAIL supplied 16,000 tonnes of steel for the Chenab Bridge in Jammu and Kashmir, the world's highest railway bridge at 359 meters above the riverbed. This steel included plates, TMT bars, and structurals.

# Building India's Icons

## Eastern Peripheral Highway

SAIL provided approximately 43,000 tonnes of steel, including TMT rebars, plates, and structurals, for the construction of the 135 km long Eastern Peripheral Expressway, a vital infrastructure project.

## Kishanganga Hydroelectric Project

SAIL provided over 10,500 tonnes of steel, more than 50%, for the 330 MW Kishanganga Hydroelectric Project. Highlighting their energy infrastructure role, SAIL also supplied 70% of steel for the Tuirial project.

## Bhupen Hazarika Setu

SAIL supplied approximately 30,000 tonnes (90%) of steel for the Bhupen Hazarika Setu, a vital bridge connecting Assam and Arunachal Pradesh over the Lohit River, showcasing their significant contribution to India's infrastructure.

## Agra- Lucknow Expressway

SAIL supplied 33,500 metric tonnes of steel for the construction of the Agra-Lucknow expressway which facilitated the touch-and-go landing of planes of the Indian Air Force, today. SAIL had primarily supplied long products consisting of earthquake resistant TMT bars for this project.

# Building India's Icons

## Mahakumbh Mela 2025

SAIL supplied approximately 45,000 tonnes of steel for the Mahakumbh Mela 2025 in Prayagraj, including various products like plates, angles, and joists. SAIL also supported the 2013 event with steel supplies.

## Chenani – Nashri Tunnel

SAIL supplied crucial TMT steel bars for the Chenani-Nashri Tunnel's construction. These high-strength bars reinforced the 9-kilometer structure in the Himalayas, ensuring stability and facilitating connectivity between Jammu and Srinagar.

## Dhanush Gun

SAIL supplied special alloy steel for India's first indigenous artillery gun "Dhanush," inducted in the Indian Army in 2019. This highlights SAIL's commitment to strengthening India's defence capabilities.

## Bogibeel Bridge

SAIL supplied around 35,400 metric tonnes of steel for the 4.94 km long Bogibeel Road-cum-Rail Bridge on the Brahmaputra. The supplied steel included TMT Rebars, Plates, and Structurals used in the bridge's composite welded steel truss girders.

# Building India's Icons

## Statue of Unity

SAIL proudly supplied around 12,000 metric tonnes steel, including reinforced steel, structurals, and plates, for the construction of the "Statue of Unity," the world's tallest statue dedicated to Sardar Vallabhbhai Patel.

## INS Vindhyagiri

SAIL supplied the entire 4,000 tonnes of special steel for India's sixth indigenous frigate, "Vindhyagiri," part of the Project P17A initiative. Built by GRSE, the ship was launched by President Murmu on August 17, 2023.

## Atal Bihari Vajpayee Sewri-Nhava Sheva Atal Setu

SAIL played a crucial role in the construction of the Atal Bihari Vajpayee Sewri-Nhava Sheva Atal Setu (Mumbai Trans Harbour Link). The company supplied high-quality steel, contributing significantly to this 21.8-kilometer engineering achievement.

## Purvanchal Expressway

SAIL supplied 48,200 tonnes of steel, including TMT bars, structurals, and plates, for the 341 km long Purvanchal Expressway in Uttar Pradesh. This massive infrastructure project is boosting economic development in the region.

# Building India's Icons

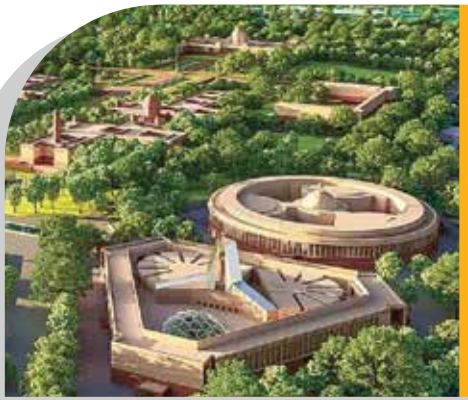
## Vande Bharat & Metro Coaches

SAIL has supplied high-quality stainless steel for the lightweight, high-speed Vande Bharat train coaches, as well as for metro projects across major cities like Delhi, Mumbai, Bengaluru, Chennai, Hyderabad, and Nagpur.

## INS Nilgiri

SAIL supplied the entire 4,000 tonnes of special steel required for the construction of INS Nilgiri, the leadership of the Nilgiri -class Project 17A frigates for the Indian Navy.

## Central Vista Project



SAIL has supplied approximately 34,000 tonnes of special grade steel for the Central Vista redevelopment project in New Delhi. This contribution reflects SAIL's commitment to building national landmarks with strength and precision.

## NTPC Darlipalli Plant

SAIL supplied essential high-grade steel for NTPC Darlipalli Super Thermal Power Station, ensuring structural integrity and efficiency, reinforcing its role in India's energy infrastructure.

# Building India's Icons

## Sardar Sarovar Dam

SAIL supplied around 85,000 tonnes of steel, accounting for 80% of the total steel required for the construction of the Sardar Sarovar Project.

## Khurja Thermal Power Plant Project

SAIL supplied steel for the 1320 MW Khurja Super Thermal Power Plant (2x660 MW), a coal-based supercritical project in Bulandshahr, Uttar Pradesh.

## Kudankulam Nuclear Power plant project

SAIL played a key role in the Kudankulam Nuclear Power Plant by supplying high-quality steel for structural components, ensuring robust construction and operational safety.

## Mumbai-Vadodara Expressway

SAIL supplied high-strength steel for the Mumbai-Vadodara Expressway, meeting stringent quality standards to ensure durability, support heavy traffic loads, and enhance commuter safety.

# Steel Threads of Progress: Mapping India's Ongoing Projects Powered by SAIL Steel


SCAN TO VIEW

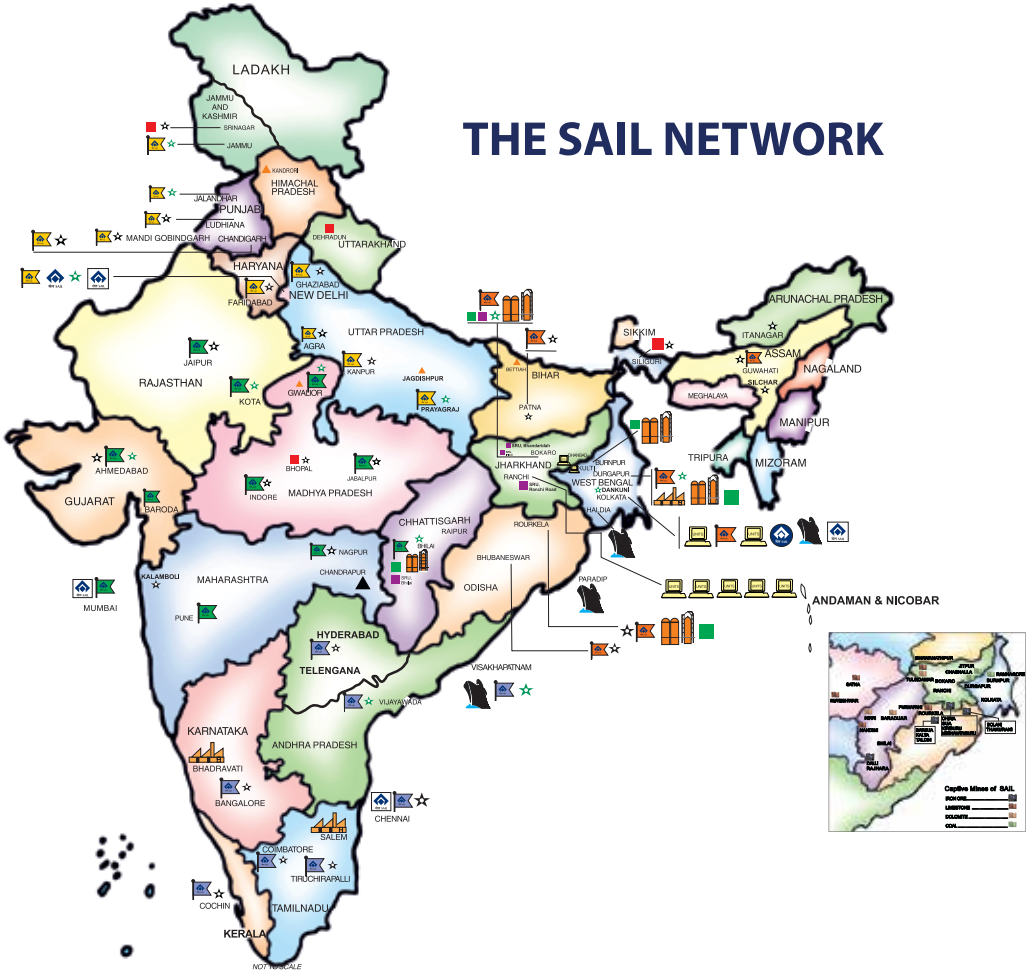
# Steel Threads of Progress: Mapping India's Projects Completed Powered by SAIL Steel


SCAN TO VIEW

# A MAHARATNA COMPANY

There's a little bit of SAIL in everybody's life

## THE SAIL NETWORK




CORPORATE OFFICE

INTEGRATED STEEL PLANTS

ALLOY AND SPECIAL STEEL PLANTS

FERRO ALLOY PLANT

UNITS

CMO HEAD QUARTERS

REGIONAL OFFICES

STEEL PROCESSING UNIT

DEPARTMENTAL WAREHOUSE

CONSIGNMENT AGENTS / CHA YARD

SALES RESIDENT MANAGER

CUSTOMER CONTACT OFFICE

SAIL REFRACTORY UNIT (SRU)

LOGISTICS & INFRASTRUCTURE DEPARTMENT

BRANCH SALES OFFICES

1. NORTHERN REGION

2. EASTERN REGION

3. WESTERN REGION

4. SOUTHERN REGION

as on 8 April, 2025

SCAN TO VIEW

# Central Marketing Organisation: Enquiry and Support

| Address | Telephone | email id |
|---|---|---|
| **MARKETING HEADQUARTERS**<br>Ispat Bhavan, Jawaharlal Nehru Road,<br>Kolkata- 700 071 | | |
| **ED (Sales & ITD)** | 033-22880020 | edsales.itd@sail.in |
| **ED (Marketing)** | 033-22889621 | edmarketing@sail.in |
| **ED (Marketing services)** | 033-22881372 | edservices@sail.in |
| **CGM (Special Steel)** | 033-22882821 | cgms.cmo@sail.in |
| **CGM (Retail)** | 033-22881072 | cgmretail.cmo@sail.in |
| **INTERNATIONAL TRADE DIVISION**<br>17th Floor, SCOPE Minar, Core- 2, North Tower Laxmi Nagar District Centre, Delhi- 110 092 | 011-22505358 | edsales.itd@sail.in |
| **REGIONAL OFFICES** | | |
| **Regional Manager, Northern Region**<br>17th Floor, SCOPE Minar Core - 1, North Tower<br>Laxmi Nagar District Centre, Delhi-110 092 | 011-22421701<br>011-22441825 | rmnr.cmo@sail.in |
| **Regional Manager, Eastern Region**<br>Ispat Bhavan, 3rd Floor<br>40 Jawaharlal Nehru Road, Kolkata-700 071 | 033-22882986 | rmer.cmo@sail.in |
| **Regional Manager, Western Region**<br>The Metropolitan 8th and 9th Floors<br>Bandra- Kurla Complex Bandra (East)<br>Mumbai- 400 051 | 022-41500501 | rmwr.cmo@sail.in |
| **Regional Manager, Southern Region**<br>Ispat Bhavan<br>5 Kodabakkam High Road<br>Chennai- 600 034 | 044-28285001<br>044-28285002 | rmsr.cmo@sail.in |
| **STAINLESS STEEL** | | |
| ED, SSP<br>Salem Steel Plant, Salem -636013, TN | 0427-2383080<br>0427-2382405 | edssp@sail.in |

स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
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Just Ask "SAIL SARATHI"

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