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STAINLESS INDIA

A MAGAZINE PUBLISHED BY

**Indian Stainless Steel
Development Association**
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20th Anniversary Special Issue



ISSDA's own office at Gurgaon, near Delhi. July 2009





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MESSAGE



It gives me immense pleasure in presenting a special 20th Anniversary issue of Stainless India. The journey has been so exciting, fun filled and equally rewarding that it feels like yesterday. When I look back, the whole story just flashes in front of my eyes and I would like to take you through the same.

It all started with our visit to London in 1988 on an invitation from Ni and Cr producers. At that point in time only four Stainless Steel development Associations were existing (Japan, Germany, Italy & South Africa). There has been a marked difference in the stainless steel market development in these countries compared to others that made us think about India. We could feel that a neutral body with the sole purpose of developing a market has larger influence when compared with different organizations working in parallel to increase their market.

The excitement paved the way and work started immediately after our return from the UK. Formally ISSDA was born in Nov 1989 as non-profit organization after long debates and taking in to confidence key manufacturers of stainless steel. This was the time when India was producing meager quantities of stainless steel and nickel prices were hitting the roof. The challenge was tough and not much was in sight as to what could be the way to work on our mission. But we were determined to bring about a revolution in the Indian market.

This was the time when the development of Cr-Mn series stainless steel started and today we all know that the 200 series grades dominate the Indian market and are well established in a variety of applications.

Today what we see in the Railways, Airports, Metro Coaches, Bus Shelters, Infrastructure projects, Dairy / Sugar Industry, etc is the result of innumerable efforts that have gone in to bring it to this level. Indian consumption of stainless steel has gone up to more than 1.4 Million tonnes from what it was at 0.2 Million tonnes in 1989. Very soon you will hear about the three Cr-Mn grades registered with the Bureau of Indian Standards which in itself is an achievement. What gives me more pleasure is that today India is not only meeting its domestic demand but also actively exporting large quantities of stainless steel in long and flat products and also finished products to large parts of the world.

This journey of transformation will be incomplete without my acknowledgements to ISSDA staff, especially Ramesh Gopal, support from the Nickel Institute, our members and government officials and end users, who have played an active role and given unrelenting support to our plans. I must also tell you that in the last 20 years the worldwide count of Stainless Steel Development Associations has gone up to 24. ISSDA has a major place among them and is widely respected by all for its work in India and support to other associations.

I thank you all for what we are and where we are today, and seek your continuous support to take it forward.....

Stain Less today, Stain Less tomorrow..

Best regards.

N. C. Mathur
President
ISSDA



Contents :

- A New Initiative Secures Prosperity for the Stainless Steel Industry
- Ansal Plaza's Domino Effect in Building & Construction
- Building Hardware
- Roofing
- Structural Applications
- Airports
- Street Furniture
- Stainless steel Sinage
- Sculpture
- The Eureka Moment in Railway Wagons
- The Long Haul – Changes in railway passenger coach materials over the years
- Metro systems in more Cities
- Automotive Sector
- India's contribution : Development of low-nickel 200 series stainless steels
- Directory of members of ISSDA with their contact details and products and services



CRU | EVENTS

ISSDA celebrates its 20th Anniversary
CRU's 12th World Stainless steel Conference

22-24 November 2009
Hotel Trident, Mumbai

On the Road to Recovery



The Gateway of India, Mumbai.

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STAINLESS INDIA

CRU STEEL NEWS



ISSDA celebrates its 20th Anniversary **CRU's 12th World Stainless Steel Conference**

22-24 November 2009
Hotel Trident, Mumbai

Programme Details

SUNDAY, 22 November

WELCOME RECEPTION and DINNER
19:00 – 22:30
The Rooftop, Hotel Trident Nariman Point, Mumbai

MONDAY, 23 November: The Regal Room, Hotel Trident

INAUGURAL SESSION AND ISSDA's 20th ANNIVERSARY FELICITATION

- 9:00 **Welcome from CRU and Session Chair**
MANISH PANDE, REGIONAL MANAGER, **CRU INDIA**
- 9:10 **Another milestone in promoting stainless steel in India**
RATAN JINDAL, VICE CHAIRMAN AND MANAGING DIRECTOR, **JSL LTD., INDIA**
NEERAJ RAJ KOCHHAR, CMD, **VIRAJ PROFILES LTD, INDIA**
S.K. ROONGTA, CHAIRMAN, **STEEL AUTHORITY OF INDIA LTD, INDIA**
NIRMAL MATHUR, PRESIDENT, **ISSDA, INDIA**
- 10:10 **Presentation from the Ministry of Steel**
VIRBHADRA SINGH, MINISTER OF STEEL, GOVERNMENT OF INDIA, INDIA

KEYNOTE SESSION: ADAPTING AND EVOLVING

- 10:30 **KEYNOTE: Sustainable Stainless: A Bright Future**
PASCAL PAYET GASPARD, SECRETARY GENERAL, **ISSF, BELGIUM**
- 10:50 **MORNING TEA AND NETWORKING SESSION**
- 11:20 **Asia's Near-Death Experience: What Have We Learned about the Region's Economic Growth?**
DR DAVID FERNANDEZ, MANAGING DIRECTOR, EMERGING ASIA RESEARCH, **J.P. MORGAN, SINGAPORE**
- 11:40 **Analyzing the Chinese Stainless Steel Market**
CAO ZHIFU, DIRECTOR OF POLICY, LAWS AND REGULATIONS RESEARCH OFFICE, **TISCO, CHINA**
- 12:10 **Outokumpu: Perspective on Stainless Steel Trends from a Global Player**
ANDREA GATTI, CORPORATE VICE PRESIDENT - CORPORATE DEVELOPMENT, **OUTOKUMPU, FINLAND**
- 12:40 **The Recession, One Year After: Implications for the Stainless Steel Industry**
PHILIP TOMLINSON, SENIOR MANAGING CONSULTANT, **CRU STRATEGIES, UK**
- 13:00 **LUNCH**

MONDAY, 23 November

RAW MATERIALS

- Session Chair**
MAARTJE COLLIGNON, SENIOR CONSULTANT, NICKEL AND CHROME, STEEL, **CRU ANALYSIS, UK**
- 14:00 **Prospects for Ferrochrome - Direction of the Market in 2010**
ROBERT YUKSEL YILDIRIM, CEO, **ETI KROM INC., TURKEY**
- 14:20 **The Advantages which Nickel brings to Stainless Steels**
STEPHEN BARNETT, PRESIDENT, **NICKEL INSTITUTE, BELGIUM**
- 14:40 **Nickel Supply Sustainability**
DAVID GADDES, CEO, **NORILSK NICKEL EUROPE LTD, UK**

15:00 AFTERNOON TEA – NETWORKING SESSION

15:30 **Nickel: The Wildcard**
ALEX TONKS, ANALYST, CITI INVESTMENT RESEARCH, *UK*

15:50 **Stainless & Steel Scrap - a force or farce?**
ANIL SHAH, PRESIDENT, NI-MET, *CANADA*

16:10 **Close of session**

19:30 **GALA DINNER**
The Presidential Ballroom, Hotel Taj President, Mumbai

TUESDAY, 24 November

INDIA: AN ASIAN CHAMPION

9:30 **Session Chairman**
NIRMAL MATHUR, PRESIDENT, ISSDA, *INDIA*

9:35 **The Indian Stainless Steel Scenario: The Growth Story**
RAVINDER SETHI, DIRECTOR, MINDSIGHT CONSULTING PVT. LTD. *INDIA*

9:55 **Stainless Steel Use for Production of India's Railways Expansion:**
Case studies from production of wagons and carriages
SHAIENDRA SINGH, CARRIAGE DIRECTORATE, RESEARCH DESIGN & STANDARDS ORGANIZATION, INDIAN RAILWAYS, *INDIA*
K.R. ANANTHANARAYANAN, (CONSULTANT) ISSDA, *INDIA*

10:35 **INDIAN PRODUCER PANEL**
NITAN CHHATWAL, DIRECTOR, VIRAJ PROFILES LTD, *INDIA*
R.K. GOYAL, DIRECTOR (COMMERCIAL), JSL LTD., *INDIA*
S.V. PANSE, CHIEF OF MARKETING, MUKAND LTD., *INDIA*
B.B. SINGH, DIRECTOR, STEEL AUTHORITY OF INDIA LTD, *INDIA*
YOGESH AGRAWAL, MANAGING DIRECTOR, RIMJHIM ISPAT LTD, *INDIA*

10:55 MORNING TEA AND NETWORKING SESSION

LONG AND FLAT PRODUCTS ANALYSIS

11:20 **After the Crisis, What are the New Behaviors of Stainless Steel Long Products Customers?**
PATRICK LAMARQUE D'ARROUZAT, CEO, UGITECH, *FRANCE*

11:40 **The Global Outlook for Flat Products**
ALISTAIR RAMSAY, PRINCIPAL STAINLESS STEEL CONSULTANT, CRU ANALYSIS, *UK*

12:00 LUNCH

REGIONAL OUTLOOKS

13:00 **North American Market Review**
BRAD BEAUCHAMP, VICE PRESIDENT, GLOBAL STAINLESS CORPORATION, *CANADA*

13:25 **Stainless Steel Trade between India and North America**
SAM DESAI, RM METALS, *USA*

CASE STUDY

13:50 **Latest Developments in Cold Rolling and Processing of Stainless Steel Strip**
RALF MATZKA, GENERAL MANAGER TECHNICAL SALES STAINLESS STEEL, SMS SIEMAG STRIP PROCESSING LINES DIVISION, *GERMANY*

14:15 AFTERNOON TEA – NETWORKING SESSION

14:45 **End of conference**



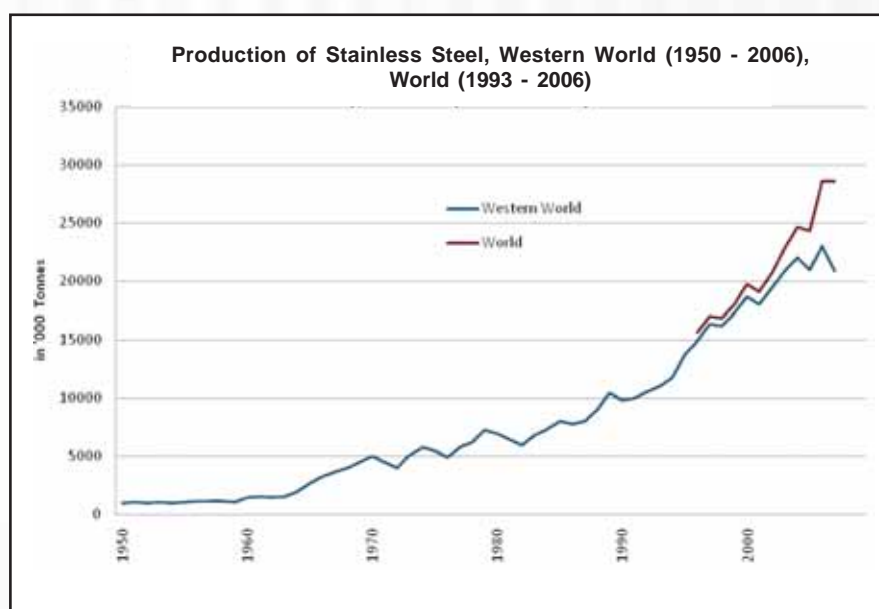
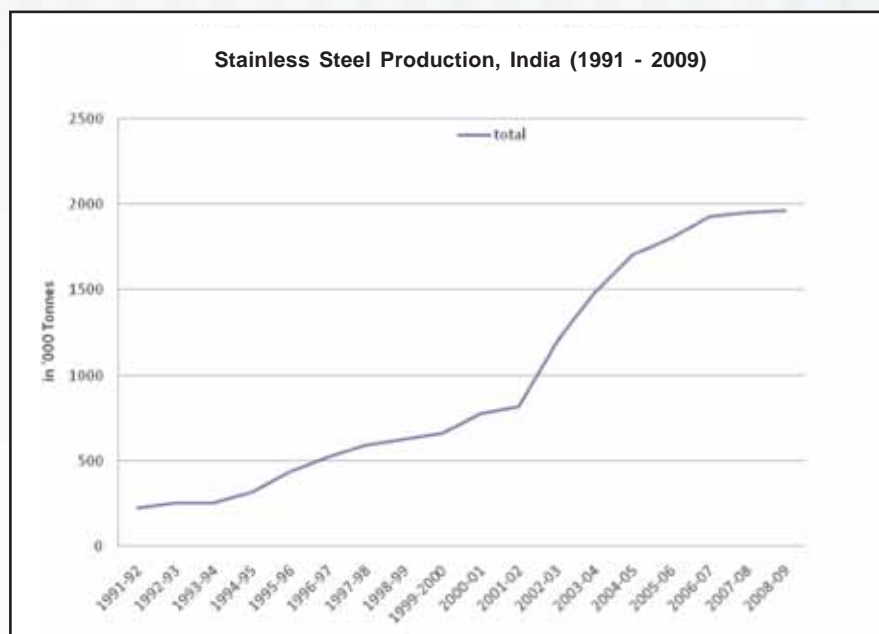
A New Initiative Secures Prosperity for the Stainless Steel Industry

The First Global Market Development Forum for Stainless Steel held in London in May 1998 sponsored by the then Nickel Development Institute, Chromium Centre and Chromium Association was convened in order that the global stainless steel industry might consider undertaking a new initiative to secure its prosperity. This historic conference had a very deep, broad and lasting impact on the growth of stainless steel markets in the whole world, including India.

In his presentation titled 'A Global View of Opportunities for Market Development in the Stainless Steel Industry' Dr. W K Armitage of the Chromium Centre, South Africa, said that while the optimistic picture for the world market was something like 3% growth per annum, he noted that *"we cannot identify any significant new initiative that has caused the buoyant situation"*.

Explaining the reason for lack of any significant new initiatives by the stainless steel industry he said "Individual industry producers often fear that any significant market development achievement opens the new business opportunity to threat from direct competitors and from imports" he said that the best safeguard against this risk is *"to develop markets collectively on a national or global industry basis"* (emphasis added – Editor).

Comparisons of mean annual demand growth rates over 19 years (1968 – 1986) between countries having national stainless steel development associations



and those without it, showed a yawning gap. Italy, West Germany, Spain and Japan with their own national SSDAs clocked between 4.5% to 6.8% growth rates. A few comparable economies without SSDAs clocked growth rates only between 2.5% and 3.2%.

The Indian stainless steel industry took the lessons of the conference

very seriously and in November 1989 the Indian Stainless Steel Development Association was incorporated. ISSDA was one of the first of a new crop of SSDAs in the world. At last count, there were about 24 national SSDAs, Euro Inox was formed for coordinated development in Europe and the International Stainless Steel Forum (ISSF) for global coordination.

These initiatives on a world scale have helped stainless steel register the highest growth rate amongst all materials, even ahead of plastics.

The rest, as they say is history. The history of rapid growth in stainless steel production in India and the world in graphic form in the previous page.

A study of end-use pattern for stainless steel in India in 1993 showed that the total use of stainless steel by the construction and transport sectors was less than 1%. In comparison, the western world used 11.6% of end-use of stainless steel in construction and 14.9% in transportation, In catering however, India was far ahead of the rest of the world at 75% of end use compared to 36.5% for others.

ISSDA realized that construction and transportation hold a lot of promise and potential and gave full

thrust on these two segments for more than a decade.

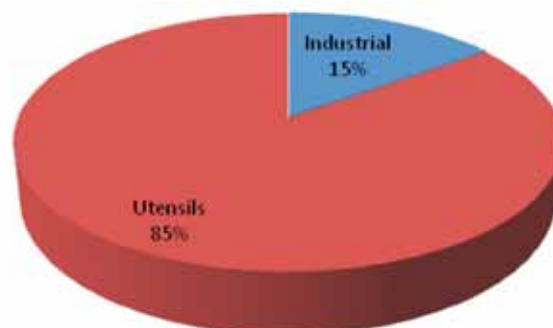
The pie-charts on this page display the rapid growth in the use of stainless steel in India and also the increasing share of the construction and transportation sector in the end-use market.

Building and construction sectors' usage of stainless steel was almost nil in 1989. Through

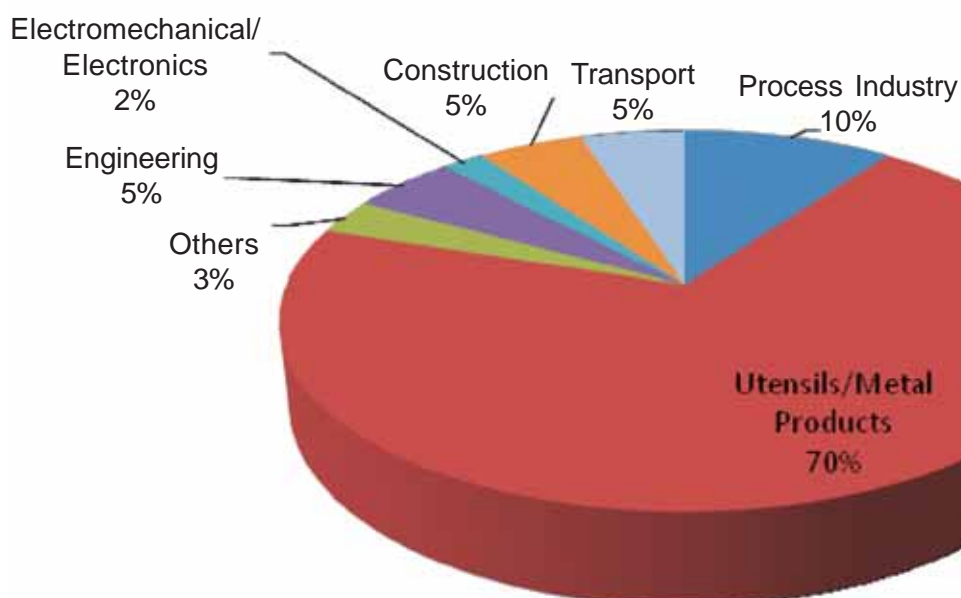
ISSDA's market development efforts, this sector now has about 6% share of the end-use markets for stainless steel in India. The building and construction sector's share is expected to go up to 10% in the next ten years.

It may be noted that although the per cent share of kitchenware is down, but in absolute tonnage terms it has increased from 212,500 to 980,000 tonnes.

**Domestic Stainless Steel Consumption (1993),
250,000 Tonnes**



**Apparent Domestic Consumption (2007-08)
1.4 million Tonnes**





Ansal Plaza's Domino Effect in Building & Construction

ISSDA had been actively trying to create awareness about the benefits of stainless steel amongst architects of every description in Delhi, especially since 1994.

Our success rate with architects was low because we could only show them photos of architectural applications in faraway places like Chennai and Bangalore, but they wanted to see and look at real life applications with their own eyes, right here in Delhi. This created the 'chicken and egg' syndrome.

Then Ansal Plaza – A prestigious high-visibility shopping complex in a highly frequented up-market location -- “happened” in Delhi.

Ansal Plaza contractors were in a cash crunch and in a hurry to complete the project. At our instance, fabricators from Chennai convinced them that even the initial cost of stainless steel cladding for circular columns in their project would be less than any other stone cladding option they were contemplating, and that this cladding would be completed much faster. Aware of the many other benefits of stainless steel, the architects wholeheartedly lapped up our material for a good number of applications. They also realized that with a good amount of gleaming stainless steel, their project would be a trendsetter in the country.

With over 90 large, tall columns clad in stainless steel, it was the first structure in Delhi to “put stainless steel on the map” for architects. Stainless steel and glass dominated the plaza with a good amount of stainless steel handrail, building hardware and shop furniture and fixtures.



The Ansal Plaza in South Delhi



Stainless steel hanging floor in a showroom



Ticket counter of a movie theater in a mall in Delhi

Ansal Plaza in Delhi opened for the public in the year 1999. Being the only large scale shopping area in the city at that time, it was

thronged with visitors as it provided a very new and exciting shopping experience.

Continued next page ►

Before Ansal Plaza “happened”, most architects we met in Delhi had misgivings about specifying stainless steel as they were not sure of the design, fabrication and execution capabilities in India. With its stunning appearance, Ansal Plaza cleared away the skepticism of architects about stainless steel use for architectural applications in Delhi and other metros.



A mural at Chennai port

The architectural market is very much like the fashion industry. Once a major project uses stainless steel in certain applications, other architects and designers will, if not slavishly follow suit, seriously consider doing something similar for their next project.

Soon after, we started witnessing the presence of stainless steel as handrail, shop display stands, furniture etc., in many large and small establishments.

Through the DOMINO EFFECT, Ansal Plaza rapidly spread the use of stainless steel in the Architecture, Building & Construction (ABC) Sector across India.



Lamp post outside a mall, Delhi



Stainless steel curtain wall in Chennai building



Guru Teg Bahadur memorial in Delhi



Fit and Forget Building Hardware



Stainless steel building hardware has edged out most traditional hardware materials like steel, GI, brass and aluminium from store shelves. Across India, people have a clear preference for stainless steel building hardware.



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The Steel Price Risk Management study has been designed to remove the mystery from hedging and risk management. Based on a comprehensive review of price risk management in the steel industry, the study will provide you with a detailed step by step guide on how you can successfully manage your steel price risk. Using the knowledge depth and breadth of CRU's steel team, combined with the expertise of CRU Price Risk Management, we explain the status of steel hedging today and how we expect it to evolve.

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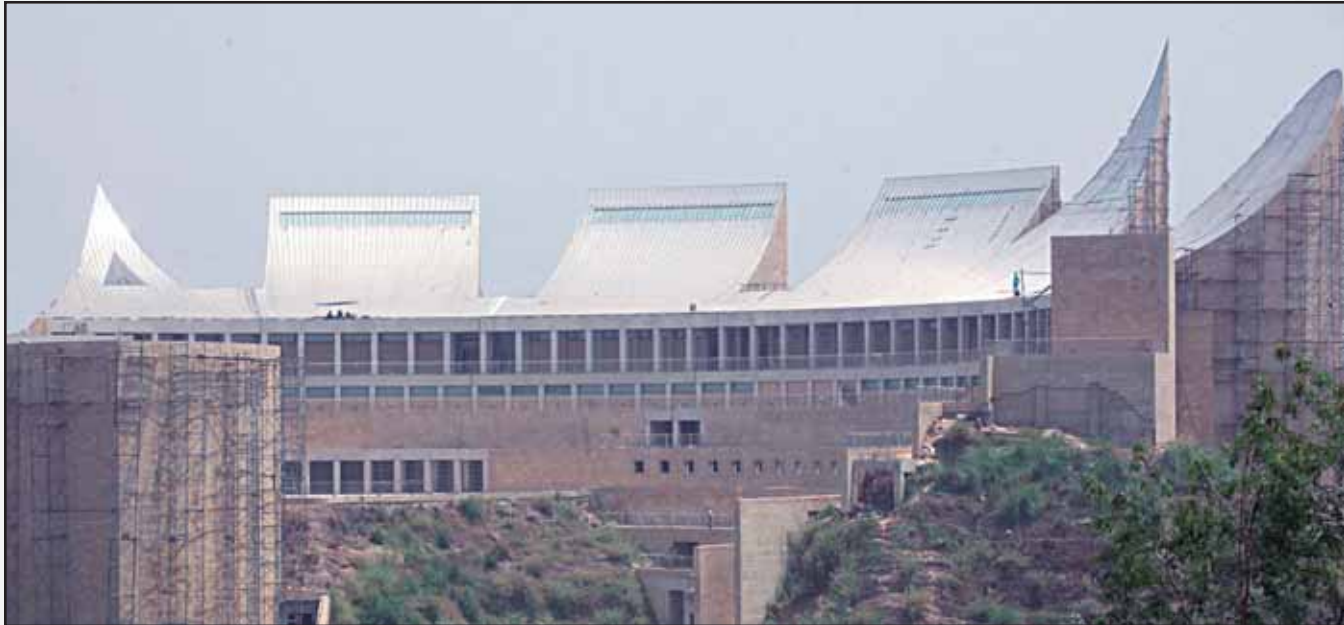
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Roofing



Khalsa heritage complex, Anandpur Sahib, Punjab, 4250 square meters



Koperkhairane railway station roof, Navi Mumbai, 10,000 square meters



Turbe railway station roof, Navi Mumbai, 10,000 square meters





Structural Applications



Space frame at JSL factory entrance, Hisar



Spiral staircase, Hyderabad



33 meter tall entrance gate at JSPL, Raigarh



C-Sections



Reinforcement bar



Airports



Hyderabad and Bangalore now have world class airports. Huge amount of stainless steel is being used for Greenfield projects and for renovation and extension of existing airports in many cities of India. According to the grand plans of the Airports Authority of India, by 2012 over 90 airports will have been upgraded.



Ahmedabad Airport



Street Furniture



Traffic umbrella in Chennai



Park Bench



Escalator, Delhi



Bus shelter at Nariman Point

Delhi and Mumbai have about 2,000 and 2,500 bus shelters each. Other cities are catching up. Almost every mall in cities is having stainless steel clad escalators. Stainless steel is being used in other street furniture like benches and traffic booths.



Bus stops in Delhi



Stainless Steel Signage



Huge Signage for Ramoji Film City near Hyderabad. The letter 'M' is 40 feet tall. Men standing at the signage are dwarfed (see arrow)



Signage at the factory of two-wheeler manufacturer Bajaj with their logo, Pune



Stainless steel signage, Mumbai



Sculpture



'A very hungry god'



In Bangalore



Laser-cut conch



In Bangalore



Garden of five senses, Delhi





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Grades: All AISI 200, 300 & 400 Series



Stainless Steel Rolled Bars

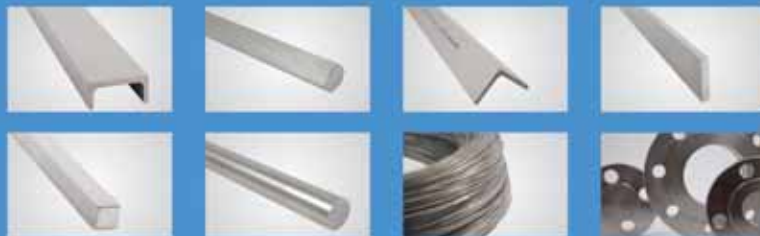
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The Eureka Moment in Railway Wagons



A new rake of stainless steel wagons ready for dispatch.

ISSDA and its member companies persisted for long years in creating awareness amongst railway personnel about the benefits of using stainless steel wagons for coal, ore, fertilizers and food grains. The grade recommended was 409M – a utility grade stainless steel suitable for such service. Perseverance ultimately paid off!

By the year 1997 Indian Railway material specification for wagons -- IRSM 44/97 was made ready for 409M. In 1998, 500 of these wagons were ready and the Indian Railways dispatched these wagons for a severe service, to haul iron ore and coal via the Coramandel coast line in south-east India. But there were no repeat orders!

An inquiry into the health of these wagons was made by the railways in 1996 and it was found that none of these wagons ever reported for the mandatory first periodic overhaul after 3-5 years of service. Further inquiry revealed that these wagons were in perfect health and the officers in charge of the wagons found no reason to send them for any check-ups!



Wagon under fabrication

EUREKA! The Indian Railways had found an excellent material for their wagons. In the 2008-09 Budget speech, the Railway Minister announced plans to induct several thousand stainless steel open wagons for hauling minerals. After re-designing the wagons with lighter stainless steel in place of corten steel and incorporating several design changes including heavier axle loads, the wagons give over 20% increase in haulage.

Without explicitly using the jargon 'Life Cycle Costing' the minister said that although stainless steel wagons were more expensive to begin with, the benefits the railways would accrue year after year would more than compensate for the added initial cost.

The Indian Railways would be using over 100,000 tonnes of 409M in 2008-10 and also in the years to come

The Long Haul – Changes in Passenger Coach Materials Over the Years

The Indian Railways (IR) is the largest railway system in the world under a single ownership – in this case, the Government of India. It has a fleet of about 50,000 passenger coaches criss-crossing the length and breadth of the country. Every year, about 2,500 new coaches are added. Annually nearly 5 billion people travel by the Indian Railways.

The Indian Railways started operations in 1854. Since then, IR has had to deal constantly with problems of corrosion of coach materials – Corrosion caused by a huge coastline and the habit of Indians to use generous quantities of water.

In its long years of service to the nation, the Indian Railways have changed materials of construction of passenger coaches not only to deal with the all important problem of corrosion, but also to provide improved amenities, comforts and speedier travel to passengers.

Images on this page show the transition from wood to carbon steel to integral coaches of monocoque design for safety, corten steel for improved corrosion resistance and then to stainless steel type 409M (painted coaches).

This transition from carbon steel to corten steel to stainless steel for the shell of the coaches came through experimenting with and gaining experience and confidence in stainless steel by initially specifying stainless steel for the most corrosion-prone areas of the shell. It started with the trough floor and toilet inlays. While these two items are standard fitment in all passenger coaches, some of the production has now been diverted to all-stainless steel shells made of 409M and some quantities of 304 to a German, LHB design.

The next transition in this long journey is the plan of the Indian Railways to set up two new factories (in



High capacity wooden bodied coach with steel under-frame.



Interior of Mumbai local train

Rae Bareilly in Uttar Pradesh and Palghat in Kerala) for exclusive manufacture of coaches made of 300 series stainless steels.

In the recent past, the Indian Railways have successfully adopted nano coating technology to improve aesthetics and hygiene, and to reduce maintenance of stainless steel coaches.

The journey continues



Stainless steel painted LHB coach



Nano coated stainless steel coach

Metro systems in more Cities



Delhi Metro Train



Artist's impression of of Mumbai metro 1



Artist's impression of Hyderabad metro train



Bombardier coach for Delhi

Successful Delhi metro has become a benchmark for other cities in India. By 2021 Delhi metro will become largest in the world with 413 kilometers of tracks and about 620 stations. Delhi Metro alone would require up to 1,000 coaches. Each coach uses about 12 tonnes of stainless steel. The grade usually specified is 301L.

Other cities like Mumbai, Bangalore, Kochi, Chennai, Hyderabad, Kolkata, Ahmedabad and Ludhiana are planning metro systems of their own. Presently, there are two manufacturers of metro coaches. Bharat Earth Movers Limited (BEM) in Bangalore and Bombardier near Vadodara in Gujarat.



Automotive Sector

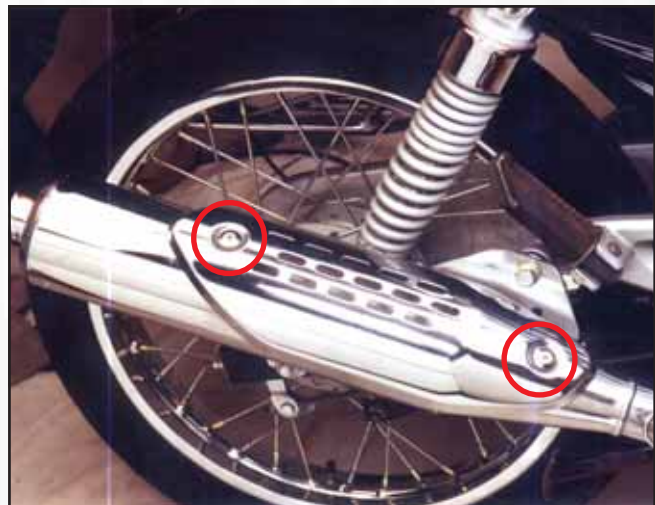


All-stainless steel exhaust systems for cars and motorcycles

India produced 1.3 million passenger cars and 7 million two-wheelers in 2007-08. Production of these vehicles is expected to increase further to more than 20 million by 2016. Due to strict emission norms, use of stainless steel in exhausts is mandated for passenger cars. By next year (2010), the entire motorcycle industry will also have meet these environmental standards and will switch over to stainless steel exhaust systems. This will be followed by scooters. The current requirement of stainless steel per two-wheeler varies between 2 to 5 kg and for cars it is 8 to 11 kg.



Stainless steel wire wheels for export



Fasteners on the handle bar, and the hot zones on the exhaust pipe, marked in red





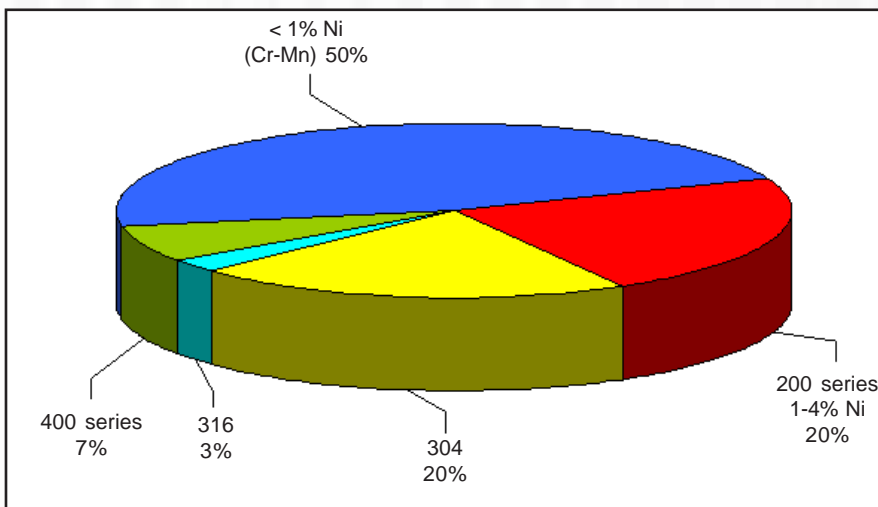
India's contribution: Development of low-nickel 200 series stainless steels

In the late 1980s, kitchenware application accounted for an overwhelming 85% of the end-use of stainless steel in India. At that point of time, almost all kitchenware was made of 300 series (18Cr, 8Ni) type stainless steels.

Two very important things happened at that time. First, nickel prices shot through the roof. Second, the Indian government's coffers were next to zero. There is no indigenous production of nickel in India and all of it has to be imported. Given that the government had no money for imports, there was no question of importing nickel, whatever the cost. Besides, for a low-cost mass market like kitchenware, you could not even dream of people paying exorbitant prices for simple necessities of life.

In the Indian psyche, non-magnetism was the surest indicator of a "good" stainless steel. Introduction of ferritic grades for kitchenware would have been a colossal disaster waiting to happen.

This situation led to the development of low-nickel stainless steel grades for kitchenware which were generally non-magnetic. The key is to appreciate that kitchen service (cooking, storing and serving) is not a critical environment for low-nickel stainless steels as far as corrosion is concerned – in other



words, fitness for service. Besides, kitchenware is cleaned and dried every day. India has 20-year of experience with these grades for this service.

Low-nickel stainless steel grades in the market have been tested over and over for their corrosion resistance, formability and mechanical properties and found fully fit for this service at reputed

laboratories in India. Through persistent efforts by ISSDA, the Bureau of Indian Standards (BIS) is now in the process of issuing an Indian Standard for these grades.

Currently, low-nickel stainless steels account for about 7% of world production. In India, they constitute 70% of domestic production of stainless steels.

There are three grades of low-nickel austenitic stainless steel that are approved by the Bureau of Indian Standards (BIS).

Grade designation	Nominal composition in %
N 1	C max 0.12; Cr 14.5-16.0; Ni 1-2; Cu 1.5-2.5; N 0.08-0.2
N 2	C max 0.10; Cr 15.5-17.0; Ni 1.5-3.5; Cu 2-4; N 0.10-0.25
N 3	C max 0.09; Cr 16.0-17.5; Ni 4-6; Cu 1.5-2.5; N 0.05-0.15



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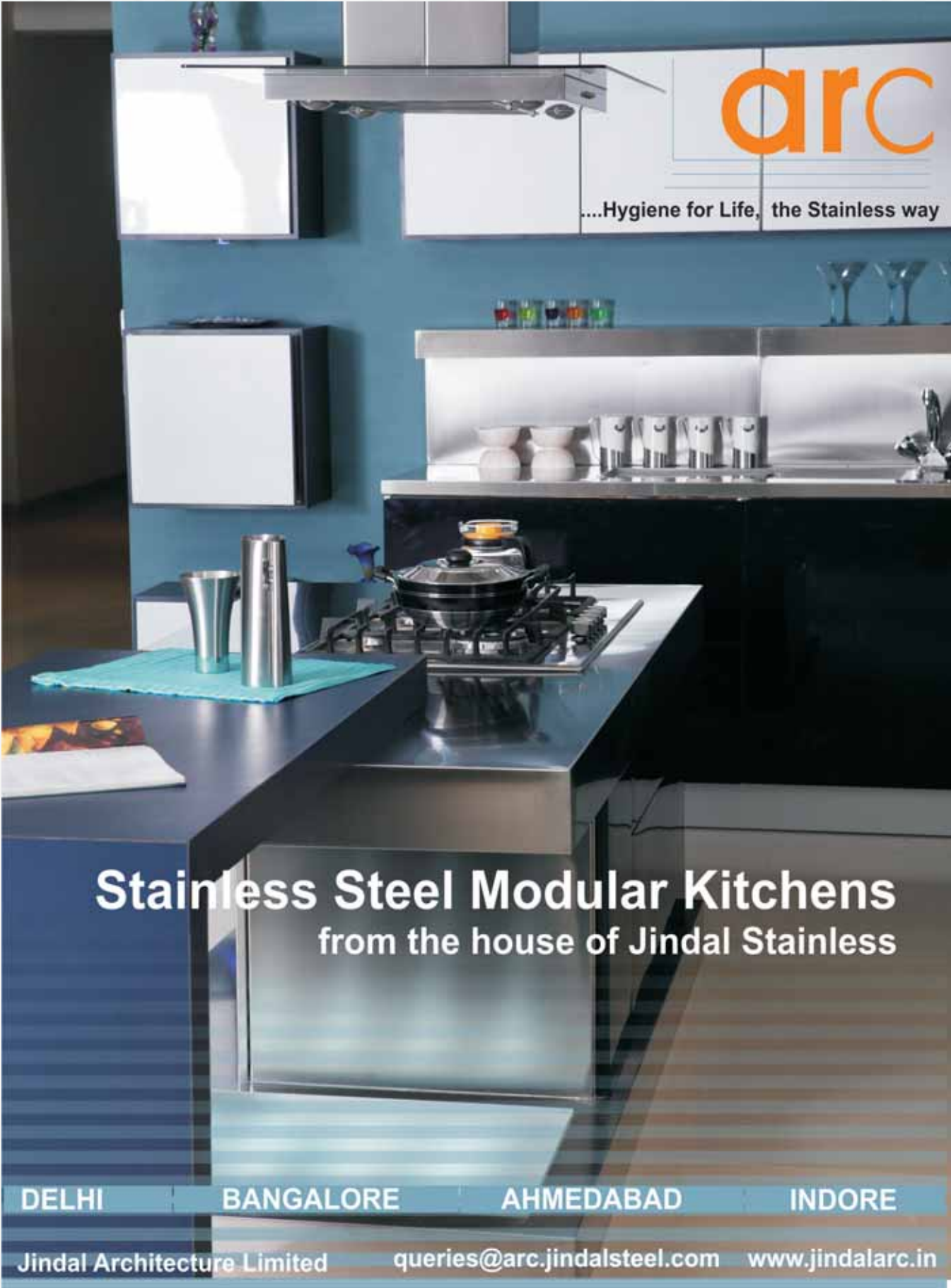
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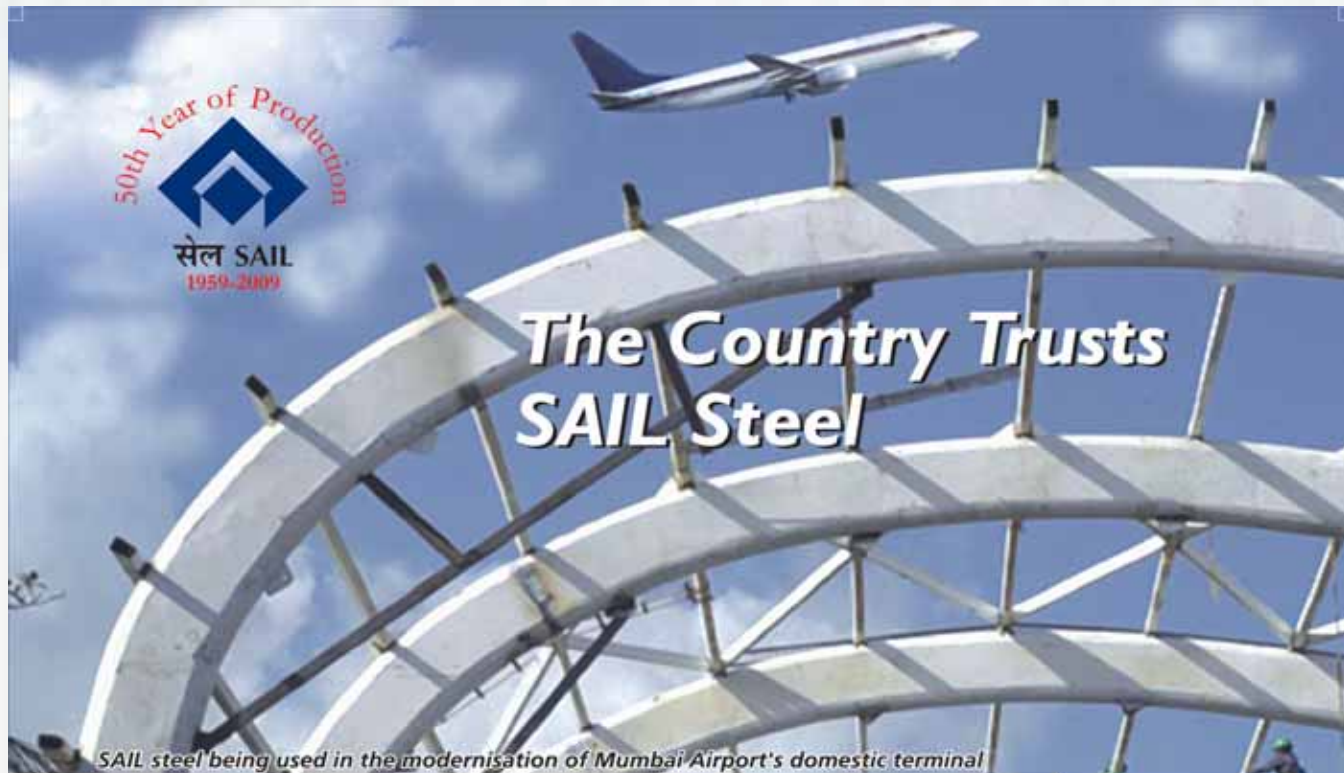


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Association of Rerollers</p> |
|--|---|



Since its inception SAIL has contributed in a major way in the development of all major infrastructure in the country. At present SAIL steel is being used in several projects of national importance in the country. A few are listed below:

Chandrayaan - SAIL supplied steel for tanks used to store liquid propellant in the Reaction Control System package of the Polar Satellite Launch Vehicle (PSLV) which carried the *Chandrayaan-1* satellite into space.

Mumbai Airport - M/s GMR has entrusted the job of modernisation of Mumbai Airport to Pratibha Pipes & Structural Pvt. Ltd. who have completed a major portion of the job using Plates and SAIL TMT.

Shivalik - Specially toughened warship grade SAIL steel was used in the *Shivalik*, the first Indian warship to be made with Indian steel.

Delhi Metro - Delhi Metro has become the pride of nation's capital within a very short time. SAIL is proud to be a contributor in making of this metro-marvel.

Power Projects - SAIL is supplying various steel products, for major thermal and hydro power projects such as Barh, Chandrapur, Mejia, Dadri, Simhadri, Lower Subansiri etc. It is primarily supplying plates, SAIL TMT bars and structurals among other products.

Worli-Bandra Sea Link - Promoted by Maharashtra State Road Development Corporation, this link will connect the island city of Mumbai with its western suburbs. More than half of the total steel being used for the project is from SAIL.

J&K Railway Line - This 340-km-long railway line will join the Kashmir valley with the Indian Railways network. The project area falls in seismic zone-V. SAIL steel is being used because of its reliability and durability.

Tsunami Rehabilitation Social Infrastructure Project - SAIL supplied light structurals, SAIL JYOTI GP/GC sheets, SAIL TMT, PM Plates and HSM Plates for this rehabilitation project undertaken at Andaman & Nicobar Islands.

Irrigation Development - SAIL has provided various sizes and grades of steel for several irrigation projects across the country such as Tapi, Indirasagar, Rajivsagar, among others.

Steel Plants - Most upcoming green-field and brown-field steel plants are depending on SAIL steel for their construction.

Windmills - Suzlon, a renowned name in windmills, is using SAIL steel for setting up windmills in Maharashtra and other regions in India. Plate mill plates in sizes varying from 10 to 40 mm are being used for the wind-mills.

Defence - SAIL is meeting the high quality steel requirements of the Indian defence including that for Aircraft carriers, submarines, etc.



SAIL JYOTI GC Sheets



SAIL TMT



SAIL JYOTI GP Sheets



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