

मजबुत, सुरक्षित, विश्वसनीय.


Head Office:


F-12, Phase-II, Additional M.I.D.C, Jalna- 431203, Maharashtra, India.

Phone: +91 02482-221003, 221333 Fax: +91 02482 221132,

Email: sales@rajuristeels.com

Website: www.rajuristeels.com

Join us on: 

Follow us on: 





RAJURI STEEL

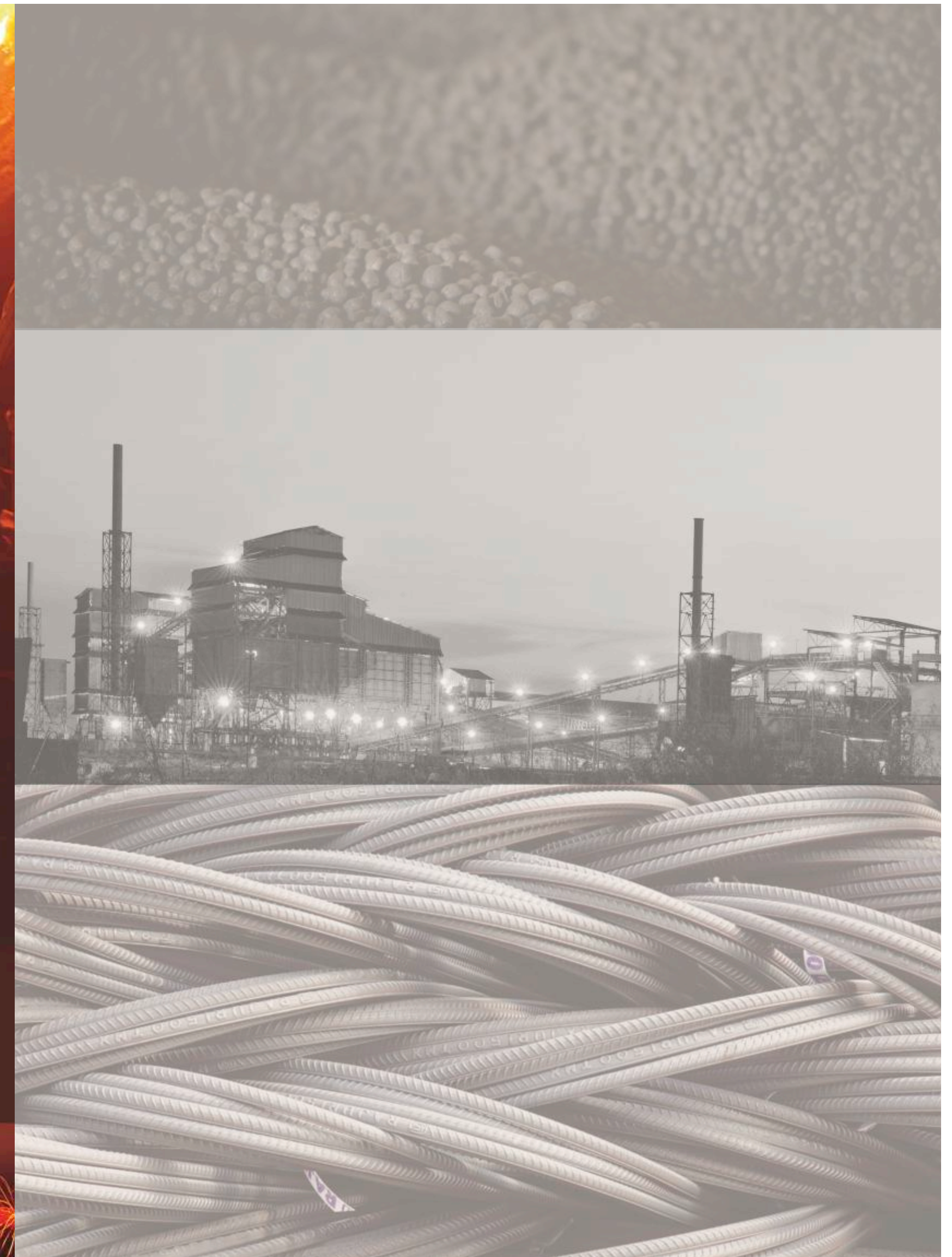
मजबूत, सुरक्षित, विश्वसनीय.

www.rajuristeels.com

हर
मजबूत
निर्माण की
ज्ञान

55000D

RAJURI 500D





RAJURI STEEL

मजबुत, सुरक्षित, विश्वसनीय.

www.rajuristeels.com



Factory plant at Chandrapur



Factory plant at Jalna

Values make steel stronger

**"Quality is never an accident; it is always the result of high intention,
sincere effort, intelligent direction and skillful execution;
it represents the wise choice of many alternatives".**

- William A Foster

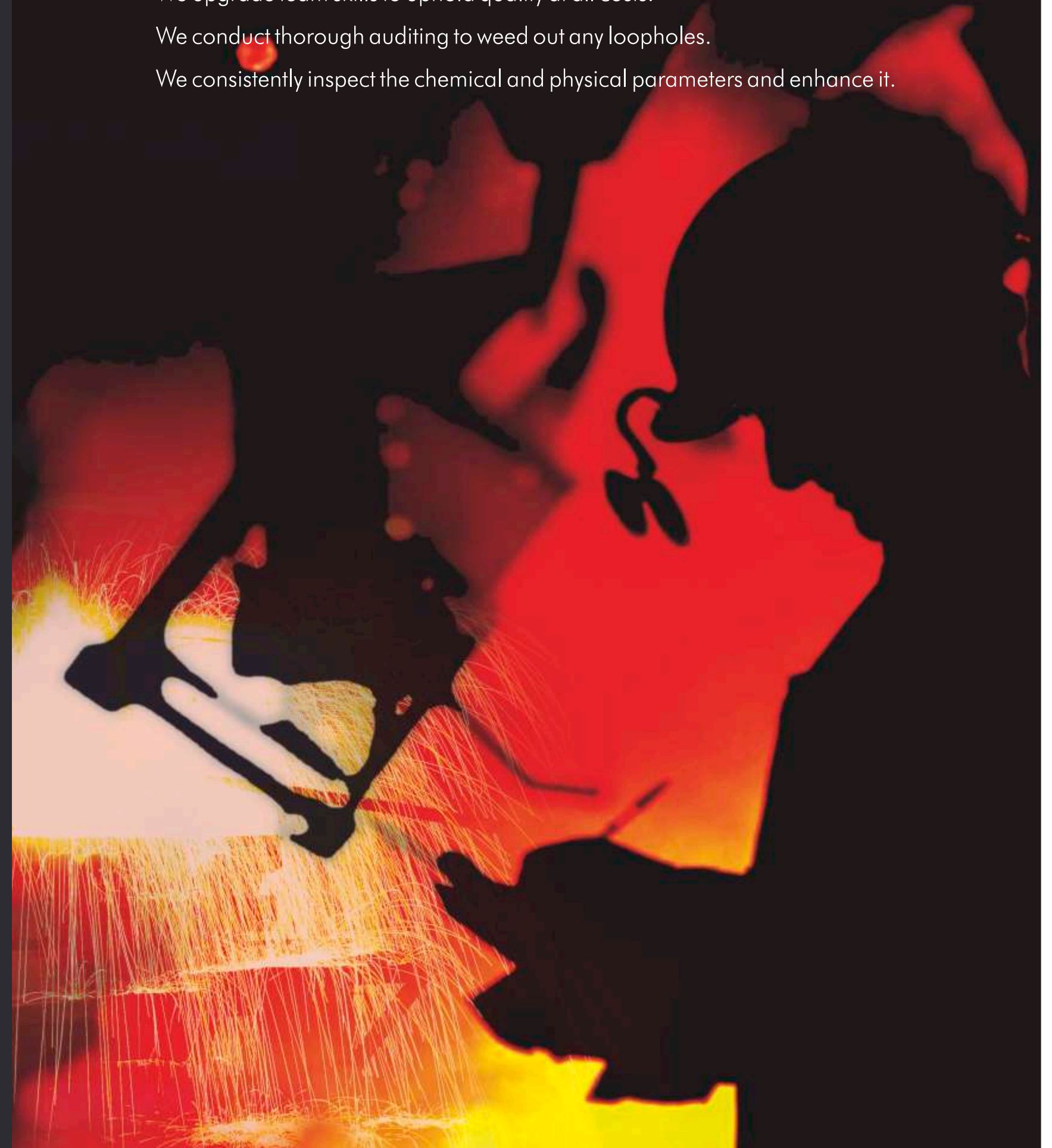
At Rajuri Steel:

We endorse a culture that respects commitment and excellence.

We upgrade team skills to uphold quality at all costs.

We conduct thorough auditing to weed out any loopholes.

We consistently inspect the chemical and physical parameters and enhance it.





A commitment moulded in steel

RAJURI STEEL has been the industry pioneer in making innovative and highly durable products in TMT rebars. Credited with setting up one of the largest steel bar manufacturing ventures in Maharashtra, the company has strived to achieve quality standards that can compete with the best in the world. At present, Rajuri Steel is the only manufacturer of corrosion resistance steel in the state and employs stringent quality standards and contemporary technology like: 'Quenching and Tempering (TMT) Technology' by the world renowned 'THERMEX', HSE, Germany. Among the select few companies producing their own high quality BILLETS, its rolling mill is operated through modern computerized machinery with a full fledged Quality Control Lab that ensures quality to BIS & other international parameters.

The company manufactures High Strength Deformed (HSD) steel bars of varying grades: Fe 415, Fe 500 and Fe 550 (with elongation values of more than 14.5 %) in 8 mm to 32 mm sizes.

With its progressive people practices, Rajuri Steel has been consistently attracting high calibre management and technical professionals. Rajuri Steel has acquired ISO 9001:2000 Certification and the license to use standard mark on its products as per IS:1786 and IS:13920. It also has the unique distinction of being the only plant in India where each bar is certified by SGS Online.

No surprises then that Rajuri Steel enjoys the utmost trust of its clients, some of whom include India's leading infrastructure and engineering companies.



The science of steel

In the near future, Rajuri Steel envisions its products playing a pivotal role in benchmark construction projects. The benefits will include enhanced strength, reduced building maintenance and long life cycle.

As the first step towards realizing this dream, the company upgraded its rolling mill with licensed 'COOLING TECHNOLOGY' that has an exemplary track record of producing bars of International Standards such as:

German BSt500 of DIN488
British Gr.450 of BIS 444-1978

Swiss Topar 500 s of SIA 162
French Fe B50 of NF-A35-016, etc.

Rajuri 500 Rebars: Leading the change

Rajuri Steel ranks among the few steel manufacturers in India that have perfected the art of producing TMT rebar using Cooling Technology, also the preferred choice across the globe. To provide further boost, the company went one step ahead and made substantial investments in upgrading and implementing automated manufacturing processes, quality testing labs and an in-house R&D department. It was now time for the next right thing. Hiring the right people. Each member of the company's workforce- from the ones manning the shop floor to the ones taking executive decisions - has been chosen on the merits of his/her education, professionalism and commitment to excellence.

The difference is there for all to see:

- . High elongation values of 16 - 25 %, ensuring greater safety
- . Rajuri TMT bars results in 15 - 20 % reduction in steel consumption and cost savings up to 10 - 15 %
- . Rajuri steel is uniquely made to be stronger, more bendable and has a higher thermal stability
- . More efficient for Seismic and/or Fatigue Loads

The market is being flooded with substandard TMT rebars which the consumer must guard against. Some dubious rolling mills have resorted to spraying water on the bars in an unscientific way and marketing them as 'TMT' rebars. Ironically, these rebars have less strength than even the lower grade CTD bars.



Where everyone loves steel

**"One machine can do the work of fifty ordinary men.
No machine can do the work of one extraordinary man"**

-Elbert Hubbard

Various steel companies use Cooling Technology to produce TMT rebars. But the truth is that several of them have been highly unsuccessful. Rajuri Steel, on the other hand, continues to set a shining example for the rest to follow. There are 3 major factors that ensure excellent quality TMT rebars:

Conducive work culture

Complete control over the system

Skilled work personnel

Having established a quality management system functioning at all levels, Rajuri Steel now intends to achieve continual improvement and provide customer delight at all times. The company regularly conducts workshops aimed at developing organizational excellence, quality awareness, skill upgradation and customer satisfaction.

Rajuri Steel is among the select few companies where the entire manufacturing process is conducted in-house. Right from producing billets to the finished rebars ready for shipment, every stage is thoroughly planned, executed and tested before the material goes to the next phase.

And last but certainly not least is the company's workforce. All employees have been carefully handpicked after a meticulous selection procedure ensuring that only those with high levels of professionalism and commitment made the grade.

So it's no surprise then that Rajuri Steel continues to enjoy premium brand status when it comes to TMT rebars.



Notes on steel

Any rebar necessarily contains two harmful impurities: Sulphur (S) & Phosphorus (P) in varying levels which affect certain properties of steel like fatigue, impact strength and corrosion resistance etc. A superior and controlled steel making practice can reduce the levels of these impurities. In the last revision of Indian Standard of Rebars (BIS) , 2008, this aspect has been factored in and a new superior category of rebar called "D" has been introduced to improve overall steel quality of Indian steel producers. In view of this development, RAJURI Steel has introduced a new grade called RAJURI 500D where the combined level of Sulphur and Phosphorus is restricted to maximum of 0.075 %

High levels of phosphorus can lead to cold shortness in steel where the steel tends to become very brittle under extreme cold conditions and thus vulnerable to cracking. High level of Sulphur can lead to hot shortness in steel, a condition in which the melting point of steel gets lowered thereby reducing its strength dramatically under high temperature conditions. Lower levels of S & P can only be achieved through advanced steel making technology. Hence Rajuri Steel employs state-of-the-art technology along with stringent quality control at every step of manufacturing.

In QST (TMT) process, immediately after the last rolling mill stand, the steel bar receives a short, intensive cooling as it passes through a contemporary Water Quenching system. The reduction in temperature converts the surface layer of bar to a hardened structure. Further cooling in atmosphere follows this phase of intensive cooling, so that the temperature between the core (which is still hot) and the cooled surface layer is equalized and the surface layer gets tempered from the heat of the core. The resultant structure is a Tempered Martensite zone at the periphery and a fine-grained Ferrite-Pearlite structure in the central zone.

So Rajuri 500D bars have all the desired properties for better reinforcement without the need of costly alloying element.

Research & Development



A centre dedicated to provide customers with prompt, innovative and cost-effective solutions - the R&D department of Rajuri is headed by competent scientists and engineers, and equipped with sophisticated diagnostic research equipment.

The company has directed its energies over the years on 3 critical areas:

- **The study of rib patterns**

The R&D team regularly inspects random production batches to ensure that the design and profile of the rib and its replication throughout the length of the bar remains uniform. This ensure uniform strength. The company's organisational culture, encouraging its personnel to track and adopt to the latest international standards led to automated milling machines that are capable of ensuring uniformity from start to finish.

A uniform rib pattern in bars ensures that excellent bond strength exists between the bar and the surrounding concrete. It enables them to take pressure from outside. While the specification stipulates that bond strength should be 40% higher than that of Mild Steel plain bars; RAJURI 500 has typical values, which are more than twice as higher.

- **Attaining optimal bar strength**

It is vital that with changing times new ideas are explored and breakthrough products and processes are attempted. Rajuri Steels' R&D investment, together with its R&D capability has given it an edge over others. The transformation phase of molten liquid iron to raw billets determines the final strength of the finished steel rebars. Rajuri's R&D team has identified and calculated the shortest possible time for this transformation.

Corrosion- (A study of causes and solutions)

Causes:

The deadliest enemy to any concrete structure reinforced with steel is corrosion. Coastal Breezes, Seawater, Saline Subsoil, Gaseous emissions in industrial regions are some of the main reasons that accelerate corrosion. Structures affected by corrosion live less than half of its expected life.

Solution:

Our research and analysis team have discovered that only steel bars that that have been infused with corrosion resistant properties during their making can truly fight corrosion.

Introducing RAJURI 500 CRS Bars:

RAJURI 500 CRS Bars are produced using a judicious selection of corrosion resistant elements (Cu, P & Cr). To begin with-Billets (raw material for bars) are manufactured through Continuous Casting Process (Concast).

Advantages of Continuous Cast Billets:

- . No impurities
- . Homogeneous distribution of various corrosion resistance elements due to purging process
- . No surface defects such as blowholes, piping, lack holes, flaws etc.
- . Maintained and consistent properties throughout the length.

Then these CRS Billets pass through Rolling by 'Quenching and Self Tempering Process. The microstructure resulting from QST process leads to high corrosion resistance as compared to conventional Cold Twisted Deformed (CTD) Bars and Ordinary TMT Bars.

This radical approach and the process involved to fight corrosion has been named NANO TECHNOLOGY by Rajuri Steel. As of today, very few steel companies across the world possess the technology to effectively resist corrosion.

Rajuri 500 CRS Advantages:

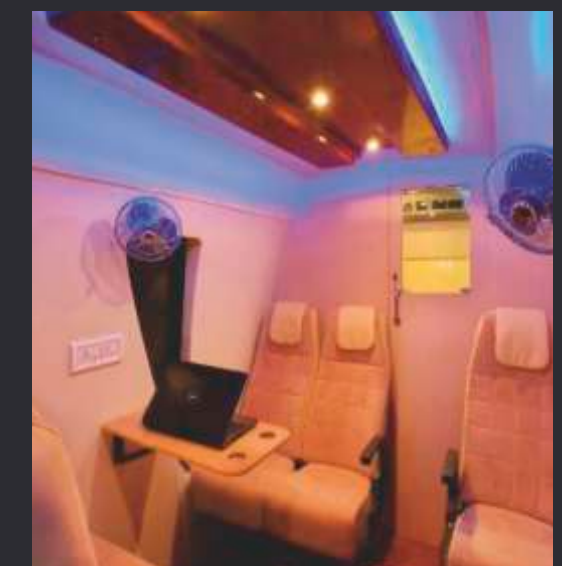
- . Longer life due to superior pitting corrosion resistance.
- . More strength along with greater safety.
- . No extra precaution while handling and transporting the material.
- . No extra precaution during welding
- . Suitable for applications in Seismic Zones
- . Cost Effective

Mobile Knowledge Centre



Rajuri Steel believes that knowledge shouldn't just remain a domain of a chosen few. For this very reason, Rajuri Steel has organized a mobile van that visits construction sites to help structural and civil engineers solve challenges arising during construction and to guide them where needed. The service is open to all, free of charge.

The van is well-equipped to provide real time testing and assessment of materials. It is common knowledge that people spend ample time and energy in choosing the right TV, fridge or other products but completely overlook the choice of steel bars that will be used to build their homes. Considering, home buying happens to a lifetime investment, this negligence can prove costly and deadly to many, a few years down the line. Rajuri Steel intends to change this attitude for good.



Steel becomes the shield



India is growing dynamically and has witnessed innovation and advancements that have bettered the lives of Indians. But the bias against the girl child still prevails in the country.

Traditions and rituals outline the existence of the Indian girl child. Amidst uproars of gender equality and law enforcement, female infants are still found dumped in trash, by the dozens, while fetuses continue to be snuffed out in the womb. Every child is special. They bring immense joy into our lives. They make our lives feel complete. Every child, boy or girl, holds the future of our nation. So each time you deny a girl child her rightful life, you are robbing your country of an opportunity to progress.

Rajuri Steel is a company driven by a mission to give India a better tomorrow. Its values, initiatives and products work towards making this dream a solid reality. As a responsible corporate, the company has introduced numerous programmes to tackle the menace of female infanticide and to spread awareness among the community. Partnering with the company's distributors across the nation, combined with advertising campaigns, road shows, seminars, Rajuri Steel had made a small but definite beginning to bring a difference in every girl's life.





The Save Girl Child Campaign Gains Momentum

Seasoned actors and Drama enthusiasts unite to regale audiences with gripping tales of girl infanticide. With active encouragement from Rajuri Steel, this Touring Street Play was able to reach people even in the otherwise remote areas and begin the process of social awakening.

When full-time artists and the general public were invited to design posters on the Save Girl Child campaign, the results amazed everyone. It was heartwarming to see such whole-hearted participation and unique expressions on one topic. The shortlisted posters were then exhibited across Maharashtra to wide acclaim by one and all.