

Fe550




INDIA GOLD



ಕಂಪೌಂಡ್ | TMT Bars | ಸರಿಯಾ





Build With


INDIA GOLD

INDIA GOLD 550

ಕಂಪೌಂಡ್ | TMT Bars | ಸರಿಯಾ



Shri Sanjay Kumar Jallan
Chairman & Director



Shri Abhishek Jalan
Director

About Us:

A One Ispat Pvt Ltd. started its journey in 2010. Within a decade it become one of the major players of TMT manufacturing. Initially specializing in manufacturing of M S Ingots Shri Sanjay Kumar Jallan along with his son Shri Abhishek Jalan developed the company and started manufacturing of M S Billets, TMT Bars and Steel Sections with year on year increased production capacity and growth of the company. This has been possible with the help of our 500+ Dealers & Distributors and a strong team of 200+ employees covering Andhra Pradesh, Karnataka, Tamilnadu and Kerala.

Vision & Mission:

Our vision is “To Become a Leader in Steel Industry” and the mission to “Provide the Most Excellent Quality Product to Consumers at the Most Economical Price”.

Goal & Strategy:

Our goal is to help build a better world with best steel. Our strategy is designed to become India’s leading steel company, enabling us to deliver value to shareholders and all stakeholders, standing firm in a rapidly changing world, where material demand will continue to rise but an increasingly sustainable and circular economy will be required.



CORROSION RESISTANT



BETTER WELDABILITY



EARTHQUACK RESISTANCE



SUPERIOR BONDING STRENGTH



AGILE & DURABLE



FLEXIBLE & STRONG



Actual Plant Photo

Commitment to Quality

To deliver continuous improvement, we have created an integrated, global approach that recognizes the interaction of every function and activity. By integrating systems that increase the effectiveness of our people, ideas, processes and suppliers, we strive to keep defects, complaints and impact on the environment to an absolute minimum.

What Sets Us Apart ?



Superior Savings:

Save between 5-15% in buildings With India Gold, you can spend less to build a stronger home.



Unmatched Quality:

India Gold TMT bars are made from best quality raw materials. Their superior chemistry makes them the perfect choice for your dream home.



Unprecedented Technology:

Automated Cooling bed maintains 100% bars in straight line and removes any chance of material twisting. Each and every bar is cooled individually giving uniformity throughout the TMT bars.



Fully Automatic Rolling Mill:

Advanced Manufacturing technology enables reducing in energy consumption as well as ability to control quality of steel giving uniformity to each TMT bar.

Why Us:

- ✓ India's Fastest Growing TMT Brand
- ✓ Manufactured with Latest German Technology
- ✓ Fully Automatic Plant providing consistency in Quality
- ✓ Chemically Tested Raw Material for giving Superior Quality TMT
- ✓ Earth quack resistant, increasing the sturdiness of construction
- ✓ High Bonding & Tensile Strength
- ✓ Every TMT Batch is Physically & Chemically Tested
- ✓ 100% as per BIS & ISO Standards
- ✓ Most Economical Brand giving maximum strength
- ✓ Ready stock availability for on time delivery



SEVEN DIMENSIONS OF SUCCESS



Quality First

A focus on customer satisfaction through product and process quality.



Supply Chain Management

Working closely with suppliers to streamline performance and minimize waste.



Manufacturing Process

Continuously focusing on methods to eliminate variability and improve efficiency.



Serving Our Customers

Building our growth through close partnerships and long-lasting relationships with our customers.



Environment Health & Safety

Conserving natural resources and ensuring the health and wellness of our employees.



Team Force

Ensuring that best practices are spread throughout the entire organization.

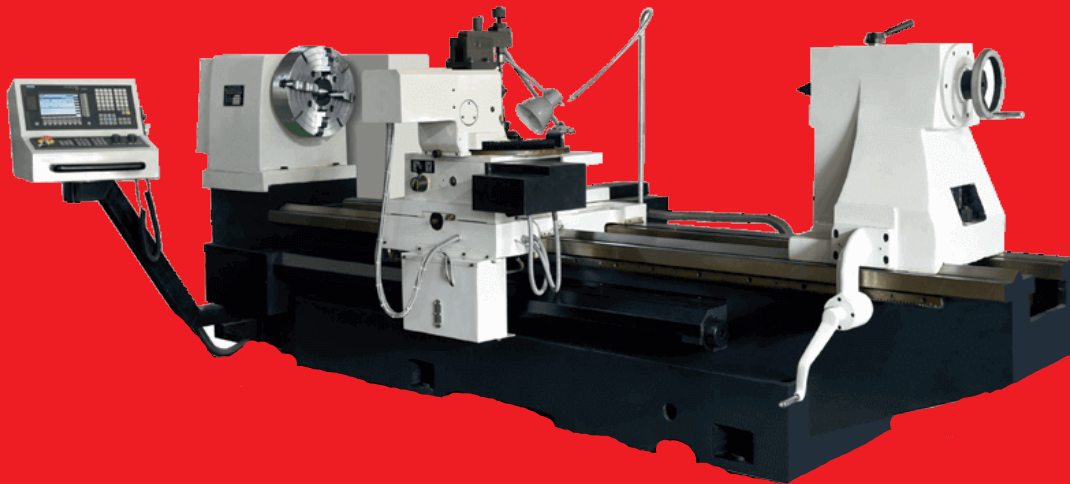


Managing Innovation

Training and empowering individuals to work within teams to actively strive for & contribute to continuous improvement.

TMT Bars Ribs

- Ribs of TMT bars plays very important role for bonding of TMT BARS with cement.
- Now a days many commercial brands are coming up with different designs of Ribs to attract customers and leaving behind the main purpose of ribs that is Bonding with cement.



Sparkonix Machine

- Fully Automatic computerized sparkonix machine for best Rib and Lux on TMT Bars.
- Uniform depth and length of the ribs.
- Equal distance between Ribs for best bonding of TMT Bars with

Chemical Composition:

Properties / Compositions	Unit	Standard (IS: 1786)	India Gold TMT
Mechanical Properties			
Grade	Unit	Fe - 550	Fe - 550
Yield Strength	N/mm ²	550 min	575 min
Tensile Strength	N/mm ²	585 min	650 min
Elongation	Ratio	10 min	15 min
UTS/YS	%	1.06 min	1.12 min
Chemical Properties (%)			
Carbon	%	0.30 max.	0.25 max.
Sulphur	%	0.055 max.	0.045 max.
Phosphorous	%	0.055 max.	0.055 max.
S+P	%	0.100 max.	0.095 max.
Si	%	0.10 min	0.20 min.



Actual Plant Photo



Glimpse of Our Manufacturing Process:

Our Raw Material purchased are thoroughly inspected and chemically tested.

- During the initial stage of primary steel making HMS, Sponge Iron, Pig Iron, Silico Manganese and other raw materials are mixed in required proportion and are fed to induction furnace to get the best quality finished goods.

The molten metal is poured directly into a casting machine to produce billets.

- Hot billet then passed between different work to forms the material to a desired specification or size.
- Mill Stands : Properly heated raw material first enters in first stand of the mill and is reduced by its thickness, At second stand it is further reduced to desired size. At remaining stands feeded materials given the desired shape and finally at the last stand desired finishing is providing to the material

Thermo Mechanical Treatment:

- Quenching – Once the hot rolled bar release from finished mill, it enters to the water spray system that is known as 'Thermex System'. The best quality TMT bars manufacturing process uses Thermex Technology that cool down the outer core rapidly and ensure the ductility of TMT rebars. Rapid cooling hardens the outer core of the TMT rebars to a depth optimized for each section, forming a martensitic rim while the core remains hot & Austenitic. This cooling technology is known as Quenching.
- Self Tempering – Once the rebar is out of the Thermex Quenching box, the core remains hot compared to the surface allowing heat to flow from the core to the surface causing Tempering of the outer Martensite layer thus forming a structure called 'Tempered Martensite'.
- Cooling bed - Once the self tempering is over the bars get ready for atmospheric cooling. This is done on cooling bed on normal temperature. In this step the austenitic core turns as ferrite-pearlite structure. Thus the final structure consists of strong outer layer with ductile core. This process increases the tensile strength that makes it highly ductile.

Bending Machine – Automatic bending machine is used to bend the material for easy load, before sending for bundling to yard section.

At the last stage, Every Batch wise samples are collected for final testing.

Tested finished goods are bundled & dispatched

“View of Our Roof Top Solar”



Actual Plant Photo

CONTRIBUTION TO NATURE :

Our maximum power utilization is from Green Energy i.e., Solar Power, Hydel Power and Wind Power, all of which are renewable source of energy and environmental friendly. By this our dependency on thermal power (Coal / Fuel) power is reduced to minimum than those of the traditional manufacturing units resulting in reduction of CO2 emission

We are proud as Green energy is renewable electricity, which means it's produced with little-to-no environmental impact and does not dispense greenhouse gases into the air that contribute to global warming.

Solar Power

Solar power is the use of the sun's energy either directly as thermal energy (heat) or through the use of photovoltaic cells in solar panels and transparent photovoltaic glass to generate electricity.

Hydel Power

Hydroelectricity is electricity made by generators that are turned by the movement of water. It is usually made with dams that partly block a river to make a reservoir of water. Water is released, and the pressure of the dam[potential energy stored in the dam] forces the water down pipes that lead to a turbine.

Wind Power

Wind energy, or wind power, is created using a wind turbine, a device that channels the power of the wind to generate electricity.

Some of our Valued Customers





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“Aerial View of A One Ispat Pvt Ltd Plant”



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Contact Us

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