

SBF  
**RAPiD** >>>®

SBF RAPiD TMT 550D ISI

TMT

Strong.Build.Forever...

**STRONG BUILD  
FOREVER**



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SBF RAPiD TMT 550D ISI



IS:1786



CM/L 8600105815



45001:2018  
9001:2015  
14001:2015





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**RAPiD** >>>®

SBF RAPiD TMT 550D TMT

Strong. Build. Forever...



**INDIA'S NO.1**  
**(4 IN 1 QST BAR)**

SBF RAPiD TMT 550D TMT

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# ABOUT US

SBF GROUP "STRONG BUILD FOREVER"... Founded in 1991, SBF Group brings over three decades of excellence in steel manufacturing, led by a dynamic team of visionary entrepreneurs. Headquartered in Bhiwadi, Rajasthan, with state-of-the-art facilities for producing MS Billets and QST TMT Bars, SBF has firmly established itself as a trusted and leading name in the Indian steel industry.

We are proud manufacturers of SBF RAPID 550D TMT Bars, a benchmark in strength, durability, and sustainability. Today, SBF Group is recognized as one of the largest manufacturers of Physically and Chemically tested TMT Bars across Delhi NCR, Haryana, and Rajasthan offering in various grades 500/500D/550/550D & CRS.

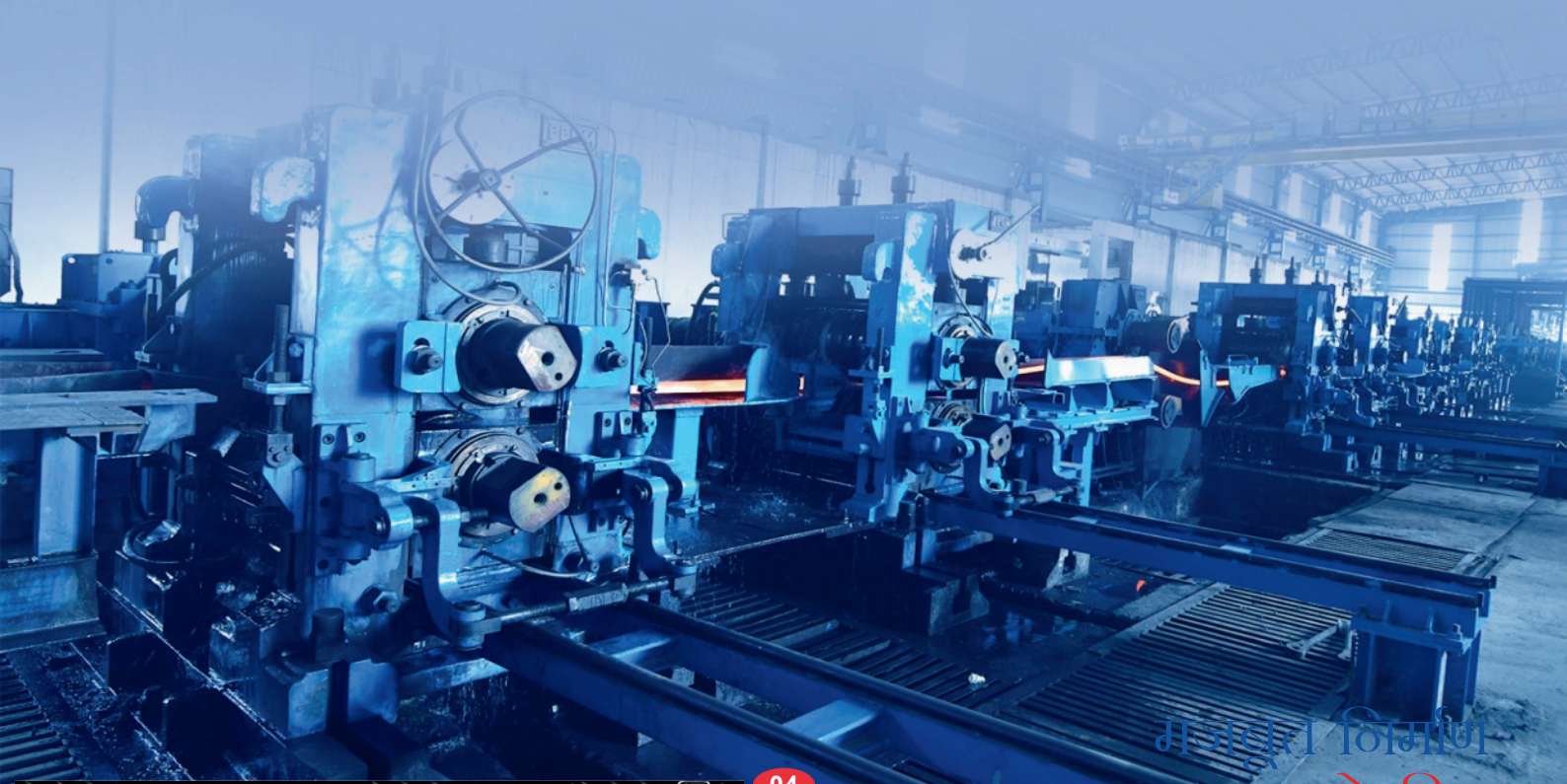
Our commitment to International quality standards, advanced production technologies, and environmental responsibility has earned us the prestigious GreenPro Certification. As part of our forward integration strategy, SBF Group has commissioned a modern, fully automatic straight rolling mill with a capacity of 2.00 lakh TPA, in 2021 and is setting up a state-of-the-art greenfield plant with a capacity of 3.50 lakh TPA—starting by early 2026. With a combined TMT manufacturing capacity projected to cross 5.5 lakh tonnes. We continue to grow while embracing sustainable practices and minimizing environmental impact.

At SBF Ispat Pvt Ltd, we produce a wide range of QST bars from 8mm to 40mm in Fe-550D, Fe-500D & CRS grades. Our QST bars are produced as per Bureau of Indian Standards ISI 1786, IS 1608, IS 6892, IS 2770, IS 1599, IS 2830 and ISO 6935-2. SBF RAPID 550D QST bars have all the qualities of corrosion resistance, high strength, fire resistance, & high bending ability and Green Pro labelled Tmt.

The group is promoted by a team of experts and experienced veterans with proven track records. The group is moving on its ethical business practices and complete transparency to provide their products and services with utmost customer satisfaction. We believe in building long-term relationships based on mutual trust and admiration with everyone, be it our customers, employees, dealers or distributors suppliers. We strengthen our motto of trust and safety with our product "SBF Rapid 550D" QST bars and make the country.

**SBF GROUP – BUILDING INDIA STRONGER, SAFER, AND GREENER.**

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## MISSION & VISION

- To provide consistently high quality products that exceed customers. expectations, accomplish profitable and sustainable growth with commitment towards social and environmental values.
- To become one of the leading Quality TMT/QST bars manufacturing companies in India with latest technologies at an affordable price.
- To practice the highest standard of corporate culture and contribute towards India's economic growth without harming the environment by using sustainable and environmental friendly manufacturing process.
- To internalize pursuit of quality in the framework of the organization.

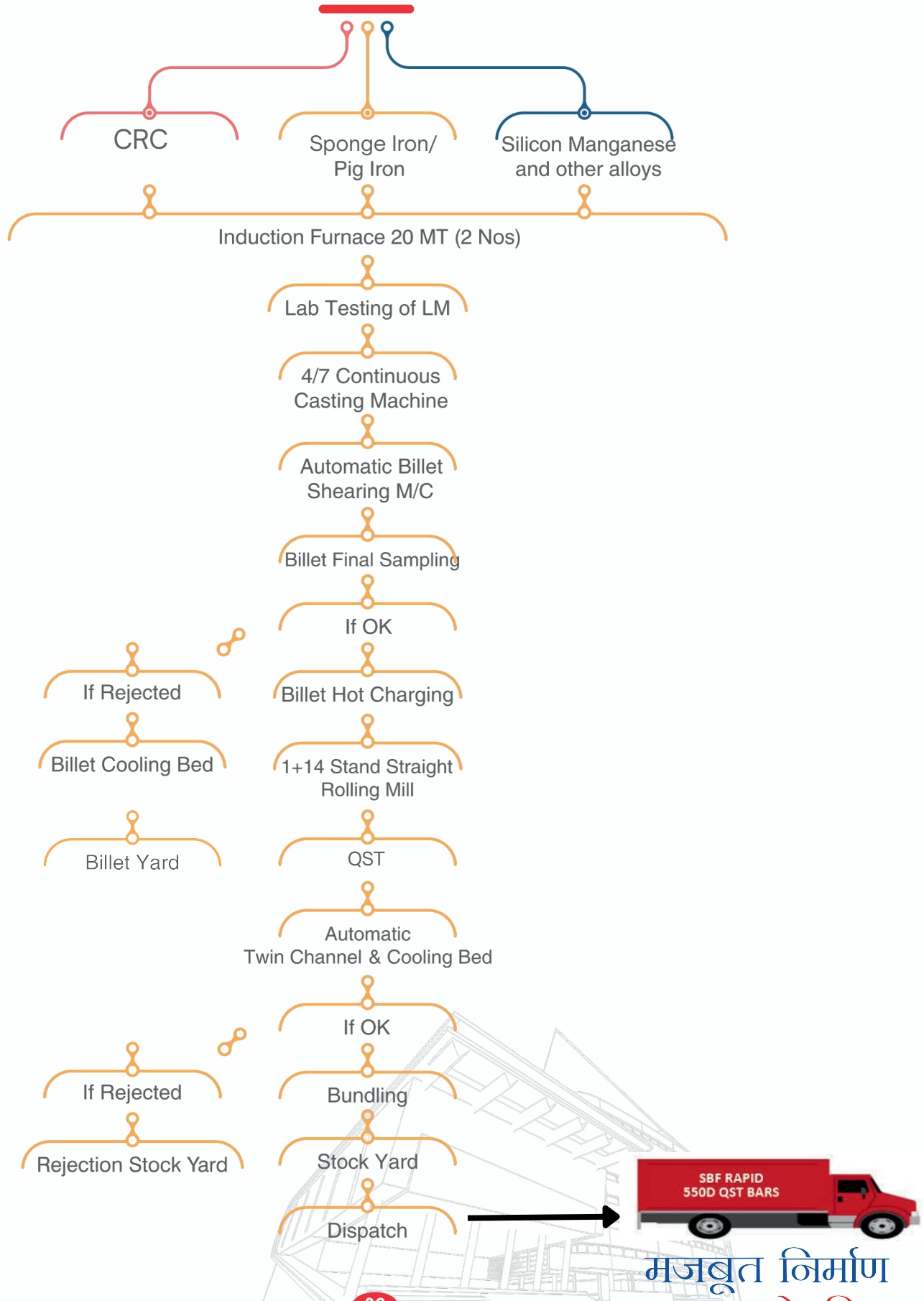
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# SBF RAPID QST BARS

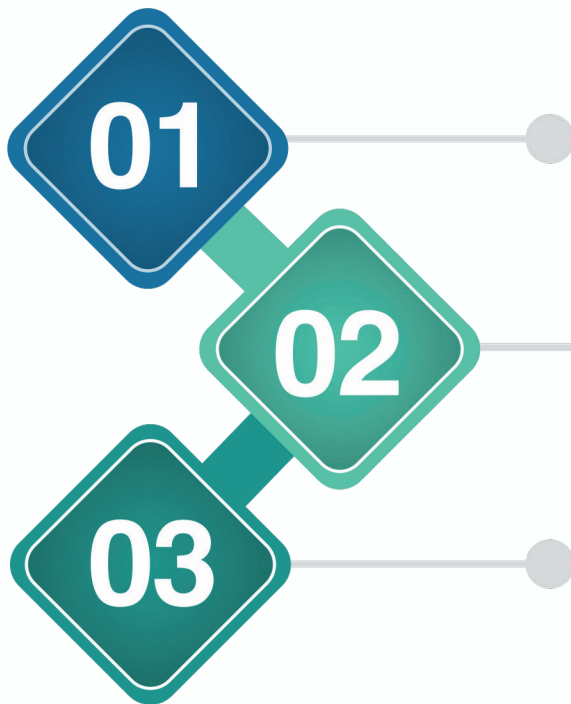
## MATERIAL FLOW OF INTEGRATED STEEL PLANT





# MANUFACTURING PROCESS OF SBF RAPID TMT REBARS

The quality of SBF RAPID TMT differs from other similar products the way it is manufactured. The different stages involved in the making of Steel are as follows:



In this stage Iron ore & CRS is converted from Iron to steel by addition of other minerals to give the strength to Fe ore in becoming the real steel. This process is done in the Steel Melting Shop and therefore, known as conversion of iron into steel. Most importantly, the steel is completely refined using the latest technology which helps in reducing the pollution thereby Carbon emissions being reduced.

The completely refined molten steel with the right chemical composition is transferred to the Continuous Casting machine (Billet Caster) to change the molten steel to Solid steel. This solid steel is known as "Billet"

The billet which is out of the caster will be rolled directly on to the rolling mill stands. In each stand the size of the billet is reduced to finish product by size.



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04

The finished product is passed through the system to remove the heat from the surface. This will allow the transfer of heat from the inner portion of the product to the outer surface. This balance of heat in the finished product will give a uniform change in the mechanical strength of the bars. This is the German technology used in this stage.

05

The bars after completing the Quenching stage will cool naturally on automatic cooling bed in the atmospheric temperature. This process is very important as the final product should balance the heat within itself to adjust to ambient temperature. This can be achieved properly by Rake type cooling bed as bars are separated from each other at an equal distance.

After this stage the final product is known as TMT (Thermo Mechanically Treated) BARS (add the pic of TMT bars)

06

Quality parameters are checked every half an hour for consistency in the TMT bars. Additionally a regular audit is done by the personnel from the company who has provided German technology

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The TMT bars are then bundled marked with a unique tag for identity of SBF RAPiD TMT bars. This final product is delivered to all the clients through our strong distribution network.



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## *Eco-Friendly Construction*

GREENPRO certification ensures the bars are produced with minimal environmental impact.

## *Environment Friendly*

No secondary fuel used  
Manufactured using only clean energy (solar/electrical)

## *Supports Green Building Initiatives*

Ideal for eco-conscious builders aiming for LEED and sustainable certifications.

*Supports Green Building Initiatives*  
These quality themes long



SBF RAPiD



# OF GREEN STEEL BY SBF RAPID



## Superior Strength Durability

SBF Rapid TMT bars undergo strict quality checks, making them more resilient for long-lasting structures.

## Energy Efficient Production

Manufactured using sustainable methods that reduce carbon footprint.

## Maximize Utilization with SBF Rapid TMT Bars!

SBF Rapid TMT Bars provide high strength and flexibility, ensuring safe and durable high-rise constructions while optimizing steel usage for maximum Floor Area Ratio (FAR) efficiency.





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SBF RAPiD TMT

550D



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# SBF RAPID RIBS PATTERN

Straight Bars for Concrete Reinforcement

Our RIBS pattern is as per IS: 1786:2019 specifications.

The precision of the RIBS patterns as per BIS: 1786 2019 handbook is done using CNC Rib Cutting & Notching machines.



## THE FUTURE IS NOW

YOUR DREAMS, OUR MISSION



ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018

**STRONG.BUILD.  
FOREVER....**

GRADES AVAILABLE :  
500, 500D, 550, 550D & CRS

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SBF RAPID TMT

550D





# OUR USP:

## ADVANCED OUTER ARMOUR SHIELD (AOAS)

SBF TMT bars has introduced AOAS technology to produce their TMT Bars with the trade name SBF RAPID TMT



## Benefits of using SBF Rapid TMT Bars :

### Higher Strength

Since we are an integrated plant, we manufacture 550D Grade quality Billets in house which are low in Sulphur and Phosphorus with high manganese. These properties always provide higher strength and Ductility of our SBF RAPID 550 D TMT Bars. As per IS Standards Fe 550 D grade TMT Bars have ultimate tensile strength of 600N/mm<sup>2</sup> and yield Strength 550N/mm<sup>2</sup> so finally this strength is suitable for any construction.

### Bend And Rebend Properties

The special microstructure of SBF RAPID 550D QST TMT Bar results in a Rebar with excellent bendability. The bar has got superior bendability which is made possible with a unique combination of tough outer core and soft inner core that has obvious advantages at construction sites. The Bars can make Bend and Re-bend easily without any Cracking and any other strength loss.

### Corrosion Resistant

This is breakthrough innovation by SBF group to fight the corrosion problem in coastal construction. Some micro alloys are added in the steel making process which improves the corrosion resistance properties of SBF RAPID 550 D QST TMT Bars.

### Better Weldability

SBF RAPID 550D QST TMT BARS come with less than 0.23% carbon equivalent which result in excellent weldability and makes it superior to ordinary Rebars.



**SBF RAPID TMT WITH THE COMMITMENT OF ULTIMATE  
STRENGTH AND PROTECTION**





## Ductility

Ductility is one of the most important physical properties of high strength TMT Rebar used for earthquake resistant construction. SBF RAPID 550D QST TMT has high manganese & low carbon Content due to which it has a rare combination of high strength and excellent ductility.

## Superior In Fire Resistance

This AOAS technology in the SBF RAPID TMT has proved as a good shield against fire hazards in the construction activity.

Due to the AOAS Shield on the steel outer surface which can resist the temperature up to 650\* C still retaining its strength.

Mazbooti is the real strength of the product which will help in withstanding the earthquakes to a Richter scale up to 6.

The above qualities of SBF Rapid TMT is making it an outstanding product in the market.

## Cost Saving

SBF RAPID TMT Bars, having a higher strength of around 20% in 550 D are much stronger than other ordinary rebars available in the market. Due to which the steel consumption can be reduced and hence increase the floor space index, thus giving the user the benefit of extra space, due to user use of rebar and become pocket friend/cost effective of around 20-30%

## GreenPro TMT

Designed to help reduce the environmental impact of construction, our GreenPro Certified Rebars are the first choice of builders who want to adopt sustainable construction practices. The GreenPro Ecolabel demonstrates your commitment to the environment.

At SBF ISPAT, we do not just manufacture steel; we contribute to sustainable development through our innovative, green products.



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## SBF RAPiD QST BARS

### PHYSICAL PROPERTIES



| Grade   | FE-500D   | FE-550D   | FE-600  | FE-700  |
|---|---|---|---|---|
| Yield Stress (N/mm <sup>2</sup> )Min            | 500D  | 550D  | 600   | 700   |
| Tensile Strength (N/mm <sup>2</sup> )Min. Ratio | ≥1.10 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 565 N/mm <sup>2</sup> | ≥1.08 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 600 N/mm <sup>2</sup> | ≥1.06 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 660 N/mm <sup>2</sup> | ≥1.04 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 760 N/mm <sup>2</sup> |
| Elongation(%) Min.                              | 16  | 15  | 10  | 10  |

## SBF RAPiD QST BARS

### CHEMICAL PROPERTIES

| Grade      | FE-500D  | FE-500D            | FE-550D  | FE-550D            | FE-600   | FE-600             | FE-700   | FE-700             |
|------------|----------|--------------------|----------|--------------------|----------|--------------------|----------|--------------------|
| (%) Max    | BIS:1786 | <b>SBF RAPiD</b>   | BIS:1786 | <b>SBF RAPiD</b>   | BIS:1786 | <b>SBF RAPiD</b>   | BIS:1786 | <b>SBF RAPiD</b>   |
| Carbon     | 0.25     | <b>0.18-0.25</b>   | 0.25     | <b>0.18-0.23</b>   | 0.30     | <b>0.18-0.25</b>   | 0.30     | <b>0.18-0.25</b>   |
| Sulphur    | 0.040    | <b>0.030-0.035</b> | 0.040    | <b>0.025-0.035</b> | 0.040    | <b>0.025-0.035</b> | 0.040    | <b>0.025-0.035</b> |
| Phosphorus | 0.040    | <b>0.028-0.035</b> | 0.040    | <b>0.025-0.035</b> | 0.040    | <b>0.025-0.035</b> | 0.040    | <b>0.025-0.035</b> |
| S+P        | 0.075    | <b>0.062-0.070</b> | 0.075    | <b>0.060-0.070</b> | 0.075    | <b>0.060-0.070</b> | 0.075    | <b>0.060-0.070</b> |

## SBF RAPiD QST BARS

### PRODUCT RANGE

| Nominal Size (mm) | BIS Standards Weight Per Meter In KG | SBF RAPiD Bar Weight Per Meter In KG | BIS Tolerance | SBF RAPiD Tolerance |
|-------------------|--------------------------------------|--------------------------------------|---------------|---------------------|
| 8                 | 0.395                                | <b>0.379-0.390</b>                   | ± 7%          | ±4%                 |
| 10                | 0.617                                | <b>0.592-0.600</b>                   | ± 7%          | ± 4%                |
| 12                | 0.888                                | <b>0.861-0.880</b>                   | ±5%           | ±3%                 |
| 16                | 1.580                                | <b>1.532-1.560</b>                   | ±5%           | ±3%                 |
| 20                | 2.470                                | <b>2.420-2.450</b>                   | ± 3%          | ±2%                 |
| 25                | 3.850                                | <b>3.773-3.840</b>                   | ± 3%          | ±2%                 |
| 28                | 4.830                                | <b>4.735-4.800</b>                   | ±3%           | ±2%                 |
| 32                | 6.310                                | <b>6.184-6.300</b>                   | ± 3%          | ±2%                 |
| 36                | 7.990                                | <b>7.800-7.900</b>                   | ± 3%          | ±2%                 |
| 40                | 9.860                                | <b>9.663-9.860</b>                   | ± 3%          | ±2%                 |

SBF RAPID TMT BARS- Rebar produced has a carbon equivalent (CE) limit of 0.39 max and, as such, requires no preheating prior to welding.

SBF RAPID CRS bars have a carbon equivalent limit of 0.44 max, however, will still not require preheating when welded in accordance with the revised Welding Standards.

Other manufacturers 500 MPa reinforcing steel may be made to higher CE limits and pre-heating may then be required in certain circumstances e.g. for tack & lap welding of larger bars.

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SBF group has the culture of maintaining the standards at the international level right from billet production to Rapid TMT Bars through hot charging process.

This is being proved again and again by the certification through the certificate as below : -



The real meaning of Reinforcement bars in the construction industry by above properties.

SBF RAPID TMT Bars are the best TMT bars for your Building, Projects, Flyovers & Sky High Buildings.





# DOORSTEP AFTER SALES SERVICE

The way SBF Steel bonding with concrete is so strong, similarly SBF Group have the moral responsibility to bond with their each & every associates.

We have a dedicated Quality Checkup Van to do the quality check on site.

Our quality checkup Van has qualified people to prove our product has not deviated as per our controlled quality check before dispatch.

“

**Building A Strong Bond Between SBF Family,  
Channel Partners and Customers.**

The finished product is passed through the system to remove the heat from the surface. This will allow the transfer of heat from the inner portion of the product to the outer surface. This balance of heat in the finished product will give a uniform change in the mechanical strength of the bars. This is the German technology used in this stage.

**FAST DELIVERY**  
DEALERS ACROSS THE REGION



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# OUR CLIENTS







INDIA'S NO.1 (4 IN 1 QST BARS)

Only SBF makes  
**40 mm bars**  
in North India



SBF  
**RAPiD** >>>®

TMT

Strong.Build.Forever...

SBF ISPAT PRIVATE LIMITED

AN ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 COMPANY

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