

SBF
RAPiD 

SBFRAPiD THERMEX 550D TMT

Strong.Build.Forever...

**STRONG BUILD
FOREVER**

मजबूत निर्माण
सदा के लिए



SBF
RAPiD 

SBFRAPiD THERMEX 550D TMT

Strong.Build.Forever...

SBF ISPAT PRIVATE LIMITED

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

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Locate Us



SBF RAPiD THERMEX 550D TMT

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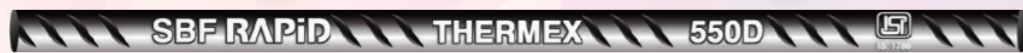
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INDIA'S NO.1
(4 IN 1 QST BAR)



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SBF
RAPiD 
TMT
Strong. Build. Forever...

Only SBF makes
40 mm bars
in North India



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



SBF RAPiD THERMEX 550D TMT

Our Prestigious Clients



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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.**

FAST DELIVERY
DEALERS ACROSS THE REGION



CERTIFICATION

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

This is being proved again and again by certifications earned below :

BIS



THERMEX



ISO



ISO



ISO



The real meaning of Reinforcement bars in the construction industry by above properties. SBF RAPID QST Bars are the best TMT bars for your Building, Projects, Flyovers & Sky High Buildings.

ABOUT US

SBF Group started in 1991, is now more than a three decade old steel based experienced group having manufacturing facilities of MS Ingots, MS billets & QST bars in Bhiwadi (Rajasthan). SBF Group is one of the leading names in the Indian Steel Industry and has carved a niche for itself in the market by producing highest quality products. The group is now one of the largest manufacturers in Delhi (NCR), Haryana & Rajasthan region, having combined capacity of 3 Lakh MT Per Annum.

SBF Group has always promoted the use of state-of-the-art technology & international standards making it the preferred supplier of QST bars, MS billets & Ingots in the country. SBF Group's simplistic approach & increased demand for products in these segments have contributed to its expansion in a very short span of time and has entered in forward integration by installing a modern, fully automatic and well equipped Straight Rolling mill integrated green field plant of 2.40 Lakh Tonne Per Annum, with commitment to reduce the carbon emission in the country and launched SBF RAPID 550D QST Reinforcement bars.

At SBF Ispat Pvt Ltd, we produce a wide range of QST bars from 8mm to 40 mm in Fe-550D, Fe-500D & Fe-600 grades. Our QST bars is 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.

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.

STRONG BUILD FOREVER





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.
- To internalize pursuit of quality in the framework of the organization.

SBF RAPiD QST BARS PHYSICAL PROPERTIES

Grade	FE-500D	FE-550D	FE-600	FE-700
Yield Stress (N/mm ²)Min	500D	550D	600	700
Tensile Strength (N/mm ²)Min. Ratio	≥1.10 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 565 N/mm ²	≥1.08 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 600 N/mm ²	≥1.06 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 660 N/mm ²	≥1.04 More Than Actual 0.2% Proof Stress / Yield Stress But Not Less Than 760 N/mm ²
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	SBF RAPiD	BIS:1786	SBF RAPiD	BIS:1786	SBF RAPiD	BIS:1786	SBF RAPiD
Carbon	0.25	0.18-0.25	0.25	0.18-0.23	0.30	0.18-0.25	0.30	0.18-0.25
Sulphur	0.040	0.030-0.035	0.040	0.025-0.035	0.040	0.025-0.035	0.040	0.025-0.035
Phosphorus	0.040	0.028-0.035	0.040	0.025-0.035	0.040	0.025-0.035	0.040	0.025-0.035
S+P	0.075	0.062-0.070	0.075	0.060-0.070	0.075	0.060-0.070	0.075	0.060-0.070

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	0.379-0.390	± 7%	±4%
10	0.617	0.592-0.600	± 7%	± 4%
12	0.888	0.861-0.880	±5%	±3%
16	1.580	1.532-1.560	±5%	±3%
20	2.470	2.420-2.450	± 3%	±2%
25	3.850	3.773-3.840	± 3%	±2%
28	4.830	4.735-4.800	±3%	±2%
32	6.310	6.184-6.300	± 3%	±2%
36	7.990	7.800-7.900	± 3%	±2%
40	9.860	9.663-9.860	± 3%	±2%

SBF RAPID RIBS PATTERN

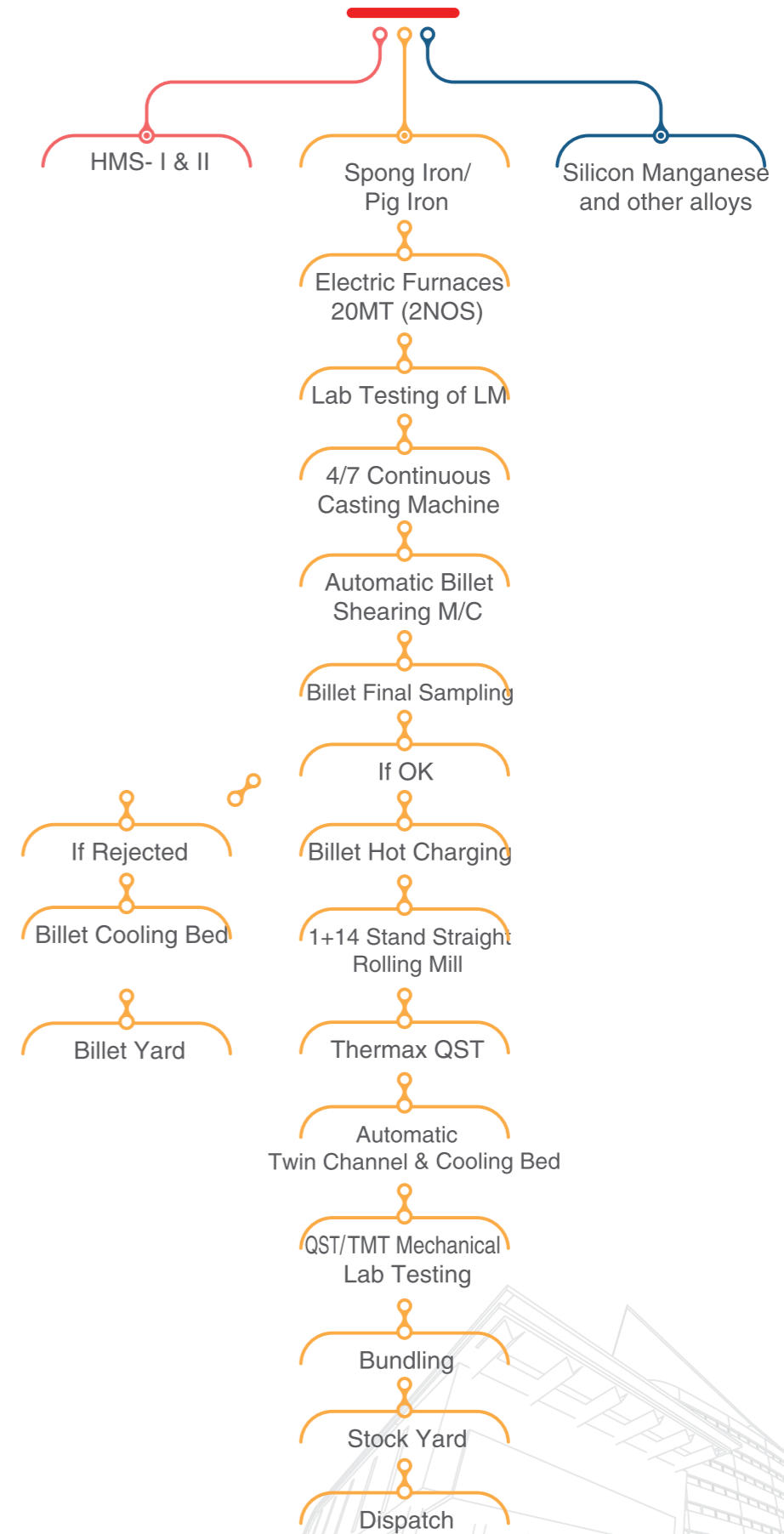
Straight Bars for Concrete Reinforcement

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

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

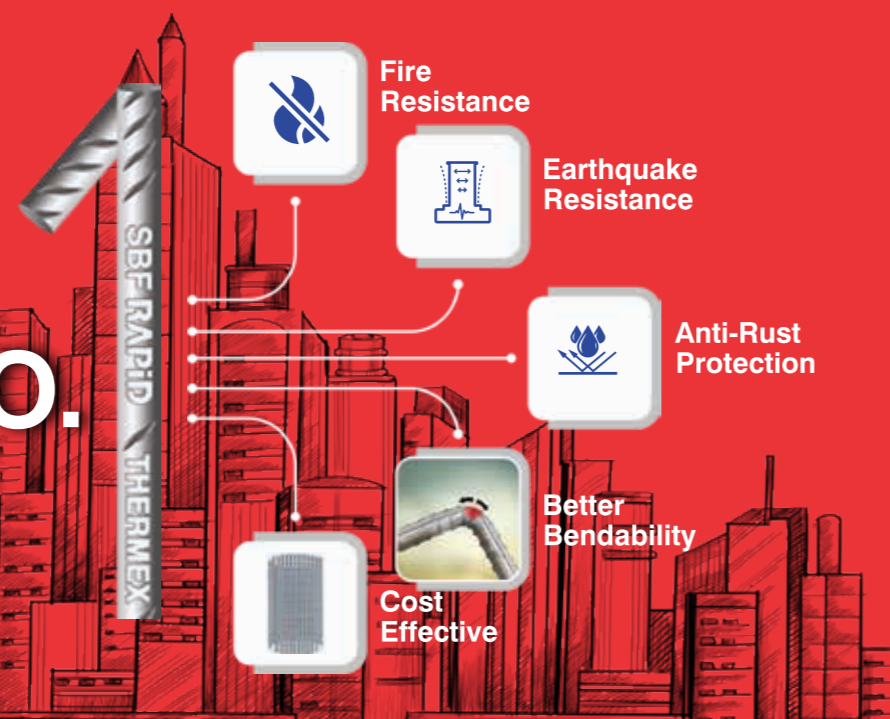


MATERIAL FLOW OF INTEGRATED STEEL PLANT



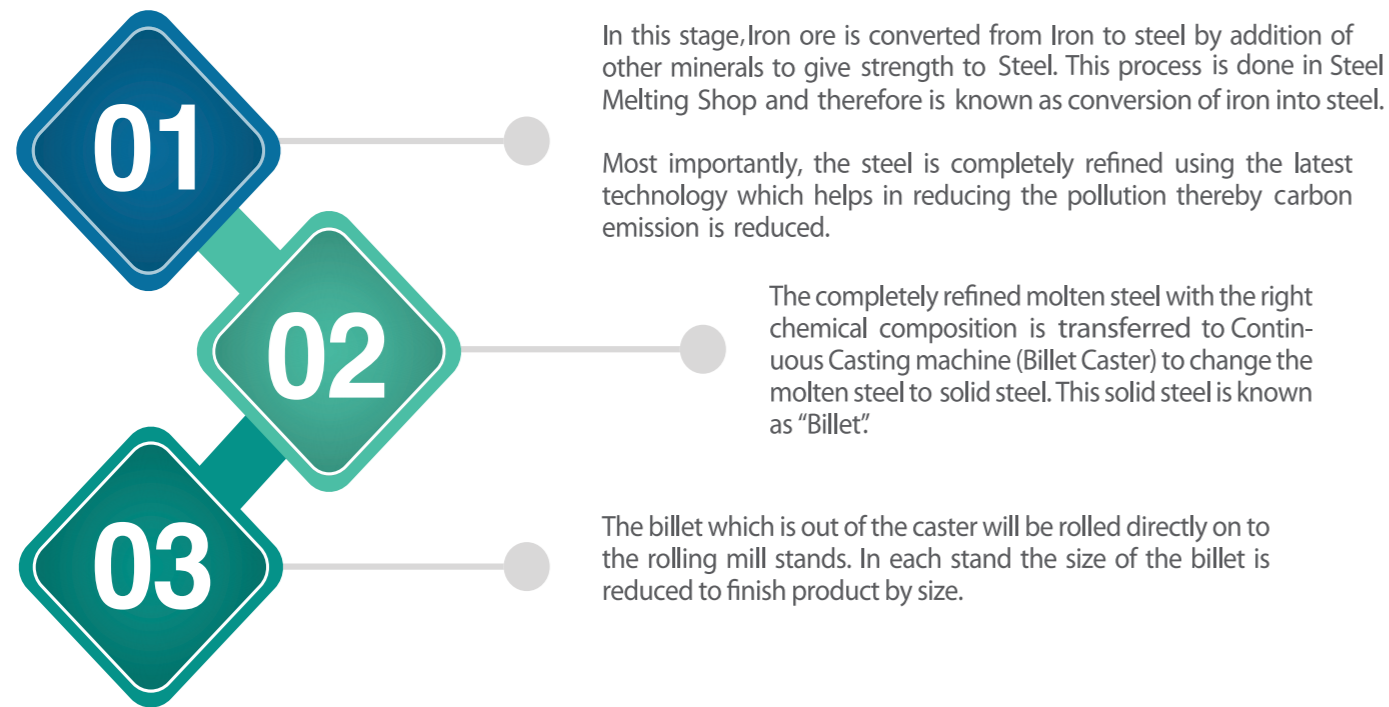
INDIA'S NO.

(4 IN 1 QST BARS)



MANUFACTURING PROCESS OF SBF RAPID QST REBARS

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



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.

Ductility

Ductility is one of the most important physical properties of high strength TMT/QST rebar used for earthquake resistant construction. SBF RAPID 550D QST 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 and can withstand an earthquake of magnitude of 6 on the Richter Scale. The above qualities of SBF Rapid TMT is make it an outstanding product in the market.

Cost Saving

SBF RAPID TMT Bars, have 20% more strength than other ordinary rebars available in the market. Due to which the steel consumption can be reduced and hence increase the floor space index. This gives the user benefit of extra space, reduce the amount of TMT/QST bars by around 20% and hence becomes pocket friendly.



OUR USP:

ADVANCED OUTER ARMOUR SHIELD (AOAS)

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

Benefits of using SBF Rapid QST 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 550D QST Bar. As per IS Standards Fe 550 D grade QST Bars have ultimate tensile strength of 600 N/mm² and yield strength 550 N/mm² and this strength is suitable for any construction.

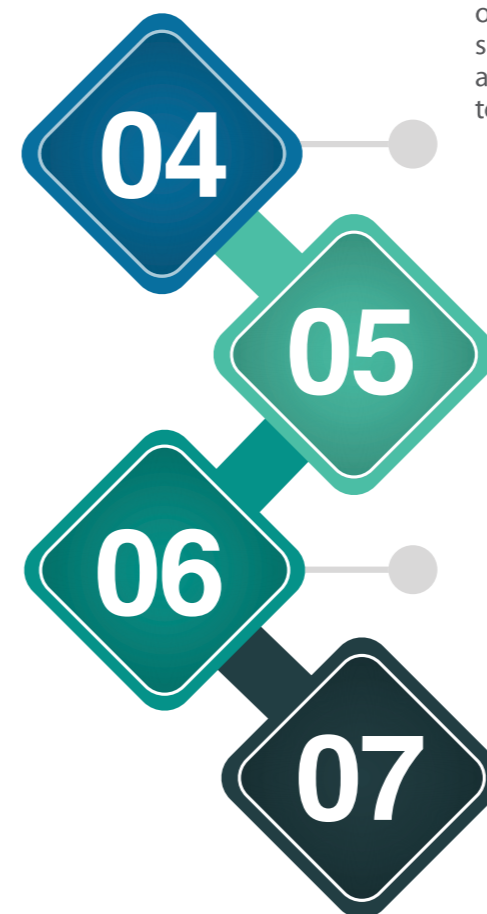
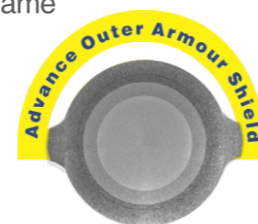
Bend And Rebend Properties

The special microstructure of SBF RAPID 550D QST bars results in a rebar with excellent bendability. The bar has 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 be 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 550D QST bars.

मजबूत निर्माण
सदा के लिए



The finished product is passed through a 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. The technology used in this stage is known as "THERMEX".

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 QST (Quenched and self tempered) bars.

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

The QST 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.



