



JR Metal Chennai Limited

Corporate Office: Old No. AA 155, New No. 16/155, AA Block,
3rd Avenue, Anna Nagar, Near Roundtana,
Chennai - 600 040, Tamil Nadu. Ph: +91 44 6932 6500

TMT Plant: Sy. No. 153, 154 & Other Sy Nos. Periyapuliur Village,
Poovalambedu Post, Via - Kavrapettai, Gummidipoondi Taluk,
Thiruvallur (District) - 601 206, Tamil Nadu. Email: info@jrmatalchennai.com

Solar Plant: Sy. No. 170/2A, 170/2B, 172/3 and others, Mottur Road, Thatchur Village,
Arani Taluk, Tiruvannamalai (District) - 632 326, Tamil Nadu.

Sponge/DRI Plant: Sy. No. 16B2, 17A, 18A and others, Nemaikallu Village,
Bommanahal Mandal, Ananthapur (District) - 515 871, Andhra Pradesh.

www.jrmatalchennai.com



The New
Face of Strength
& Stability





The JR Group

Powering Progress with Purpose

Behind every JR TMT bar stands the strength of the JR Group, a dynamic, vertically integrated steel enterprise built over three decades of relentless growth and execution.

From sponge iron to billets, from advanced TMT manufacturing to renewable energy, the Group has created a seamless ecosystem that ensures complete control over quality, cost, and consistency. With multiple successfully executed steel plants and continuous investment in backward and forward integration, JR Group is not just expanding, it is strategically strengthening every link in the value chain.

What sets the JR Group apart is its forward, thinking vision: combining manufacturing excellence with sustainability, operational discipline with innovation, and scale with reliability.

Driven by ambition and built on expertise, the JR Group continues to shape infrastructure, empower industries, and reinforce the foundations of tomorrow.

JR Metal Chennai Limited

For over two decades, the JR Group has been the silent strength behind South India's growth. At its core stands JR Metal Chennai Limited (JRM) - the flagship company driving innovation in steel manufacturing.

Today, JRM is one of the fastest-growing steel manufacturers in South India, supported by six successfully executed steel plants and continuous investment in backward and forward integration.

At JRM, steel making is not just production process, it is precision engineering. The fully automated, state-of-the-art facility manufactures premium TMT rebars and mild steel billets designed for strength, durability, and consistency. Advanced rolling mills, a continuous straight mill, and a world-class electromagnetic array cooling bed ensure superior structural performance in every bar.

Backed by skilled professionals and trusted industry relationships, JRM stands for reliability, precision and unmatched quality. Beyond manufacturing excellence, JR Metal, Chennai remains deeply committed to environmental responsibility. Each production facility reflects a conscious effort to minimize ecological impact, with well-maintained green belts and open spaces surrounding its industrial complexes - reinforcing the company's dedication to sustainable and responsible growth.

Choosing JR TMT means choosing a brand approved for major state projects by the PWD, CPWD, TNHB, TNPSC, NHAI, CMRL, TNSCB and Highways Dept. Every batch undergoes rigorous, fully computerized testing in advanced



laboratories, earning certifications from BIS, BSCIC, and ISO, ensuring precision, zero human error, and uncompromised reliability.

With trusted industry partnerships and a commitment to sustainable operations, JRM delivers steel that builds with the nation.

Products

Sponge Iron

JR Metal manufactures premium-grade Sponge Iron / DRI (Direct Reduced Iron) at its dedicated facility in Anantapur District, Andhra Pradesh. Located close to the iron ore belts of Bellary, the plant benefits from consistent access to high-quality raw materials and efficient logistics.

Our sponge iron is produced through a controlled reduction process using superior-grade iron ore and non-coking coal. The result is a product known for high metallization, low levels of sulphur and phosphorus, and stable thermal properties, making it highly suitable for electric arc and induction furnace operations.

The material delivers improved furnace productivity, consistent melt quality, and better control over carbon content. It also supports higher yield and lower slag formation, helping steel producers enhance efficiency while reducing operational costs.

Compared to traditional blast furnace routes, our DRI offers a more energy-efficient and environmentally responsible approach to steelmaking.

Key Features & Advantages

- High Metallization
- Low Impurities
- Improved Energy Efficiency
- Enhanced Yield & Recovery
- Environment-Friendly Alternative



MS Billets

JR Metal produces high-quality continuously cast Mild Steel (MS) Billets at its fully integrated steel manufacturing facility. These billets serve as the core raw material for premium TMT rebars and structural steel components, ensuring strength from the very first stage of production.

Manufactured using advanced continuous casting technology, our billets offer excellent strength, weldability, and machinability. Available in standard sizes such as 130 x 130 mm, they are ideal for producing Fe 550, 550D, CRS 550D grade TMT rebars and structural applications.

CRS Billets

JR Metal's CRS (Corrosion Resistant Steel) Billets are specially engineered for producing high-performance corrosion-resistant TMT rebars. Manufactured with carefully controlled alloying elements like Copper, Chromium, and Phosphorus, these billets provide enhanced resistance against rust, moisture, and atmospheric corrosion. Designed for demanding environments, they are particularly suited for coastal, humid, and industrial conditions. By improving structural durability and extending service life, CRS billets offer reliable protection for reinforced concrete structures exposed to aggressive external elements.

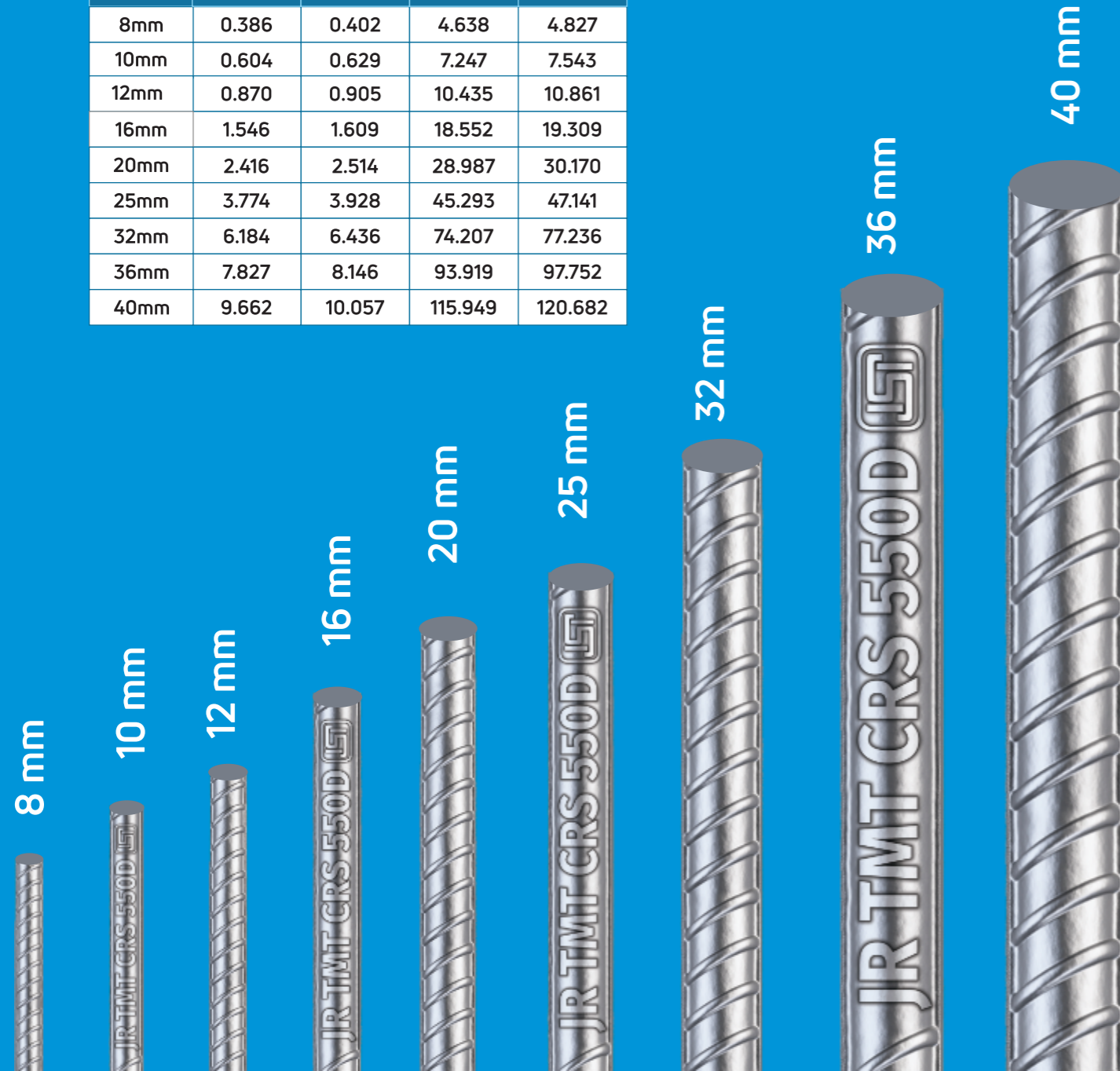
JR TMT CRS 550D

TMT Bars

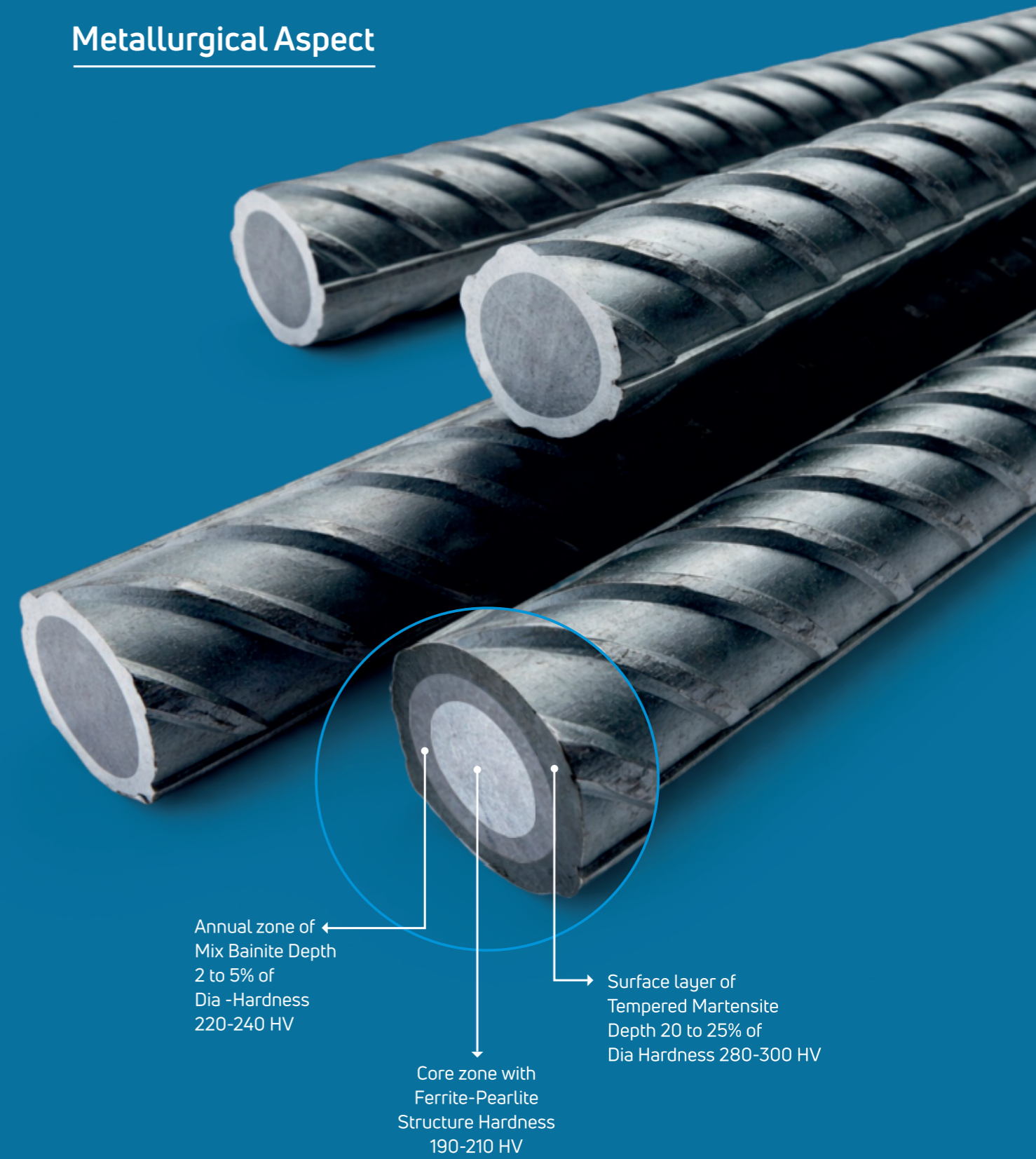
JRTMT rebars represent the next generation of high-strength reinforcement steel, combining superior ductility, weldability, bendability, and tensile strength. Manufactured from premium in-house billets, each bar reflects strict metallurgical control and consistent quality. Available in sizes ranging from 8 mm to 32 mm, the TMT bars are available in a standard length of 12 meters and customized lengths up to 22 meters are also available. Special lengths of 36mm and 40mm are also manufactured depending on the requirements. Engineered for structural safety and long-term performance, JR TMT rebars are trusted across diverse construction applications.

Weight Parameters

Size (mm)	Weight Per Meter (in Kgs)		Weight Per Rod (in Kgs)	
	min	max	min	max
8mm	0.386	0.402	4.638	4.827
10mm	0.604	0.629	7.247	7.543
12mm	0.870	0.905	10.435	10.861
16mm	1.546	1.609	18.552	19.309
20mm	2.416	2.514	28.987	30.170
25mm	3.774	3.928	45.293	47.141
32mm	6.184	6.436	74.207	77.236
36mm	7.827	8.146	93.919	97.752
40mm	9.662	10.057	115.949	120.682



Metallurgical Aspect

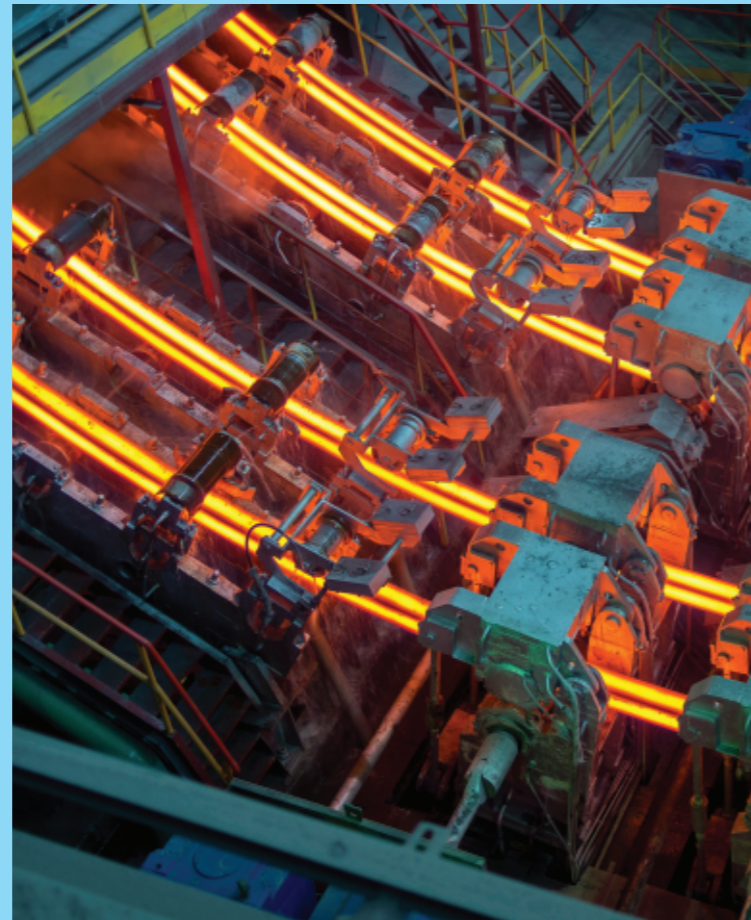


Our Technology

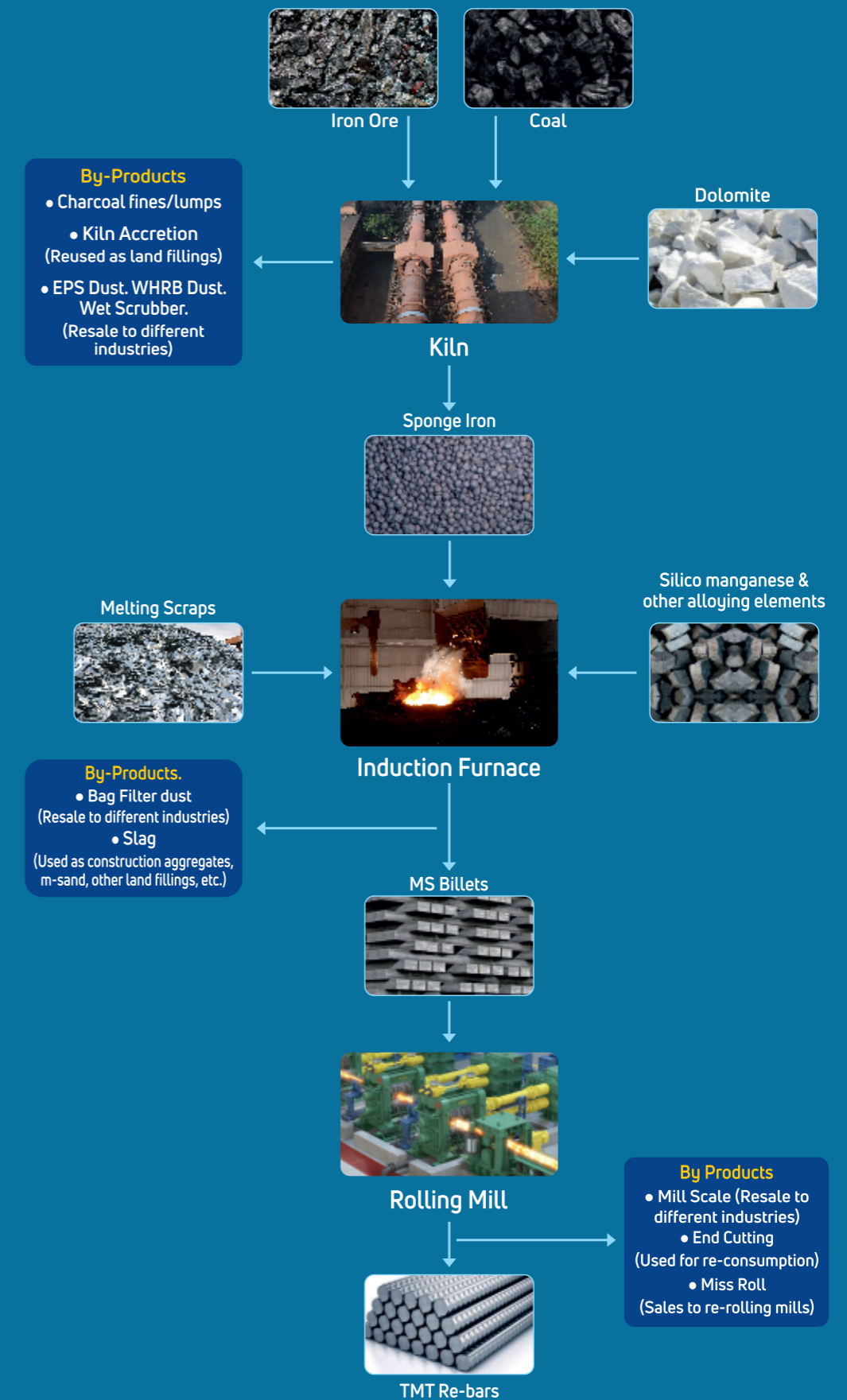
JR TMT bars are produced using advanced and globally recognized thermo-mechanical treatment process that transforms steel at a structural level. Unlike traditional cold-twisted bars, this method enhances both strength and flexibility through controlled heat treatment rather than mechanical deformation.

As the bars exit the rolling mill, they pass through a precisely engineered quenching system where rapid water cooling hardens the outer surface. This creates a tough martensitic layer, while the inner core remains softer and more ductile. The residual heat from the core then naturally tempers the surface, forming a balanced microstructure that combines tensile strength with toughness and weldability.

Our manufacturing systems are calibrated to maintain exact cooling intensity and temperature control, ensuring uniform mechanical properties in every bar. The result is steel with excellent bendability, dimensional precision, and strong resistance to seismic and dynamic loads, built to perform in demanding construction environments.



Manufacturing Process Flow Chart





5-Star Certified Green Steel

JR TMT proudly carries the 5-Star Green Steel Certification - a testament to our commitment to responsible manufacturing and sustainable growth. At JR Metal, strength is not achieved at the expense of the environment. We have carefully redesigned our processes to reduce environmental impact while delivering uncompromising structural performance.

By integrating cleaner technologies and energy-efficient systems, we ensure that every bar we produce meets the highest ecological benchmarks.

The result is steel that not only strengthens structures but also supports a greener future.



Universal Testing Machine: 120 MT

- Fully computerized with zero human interference
- 34+ parameters tested in 60 seconds
- No manipulation possible thus ensures reliability
- High accuracy of tensile bend and rebend test



Spectrometer

- Proven German Technology
- Extremely accurate testing and instant results
- Superior analytical performance

Test Methodology

At JR Metal, quality is not inspected at the end, it is engineered at every stage. From raw material intake to final dispatch, each step is governed by rigorous testing and documented precision.

Our in-house laboratory is equipped with 120 MT and 100 MT Universal Testing Machines to evaluate tensile strength and mechanical performance with complete accuracy. Billets are first analyzed in a Spectrolab to confirm exact chemical composition before entering the rolling process.

During production, samples are collected at fixed intervals to verify sectional weight and physical properties. The first and last bars of every lot undergo detailed chemical analysis for carbon, manganese, silicon, sulphur, and phosphorus, ensuring consistency across batches. Each lot is traceable through systematic labeling and certification.

Backed by BIS licensing and ISO certification, JR Metal upholds national and international quality benchmarks with discipline, transparency, and uncompromising standards.



CNC RIB Cutting Machine

- Uniform ribs throughout the length of the bar.
- Avoids distortion of roll material and material properties.
- 4 axis CNC ensures perfect angles and degrees.

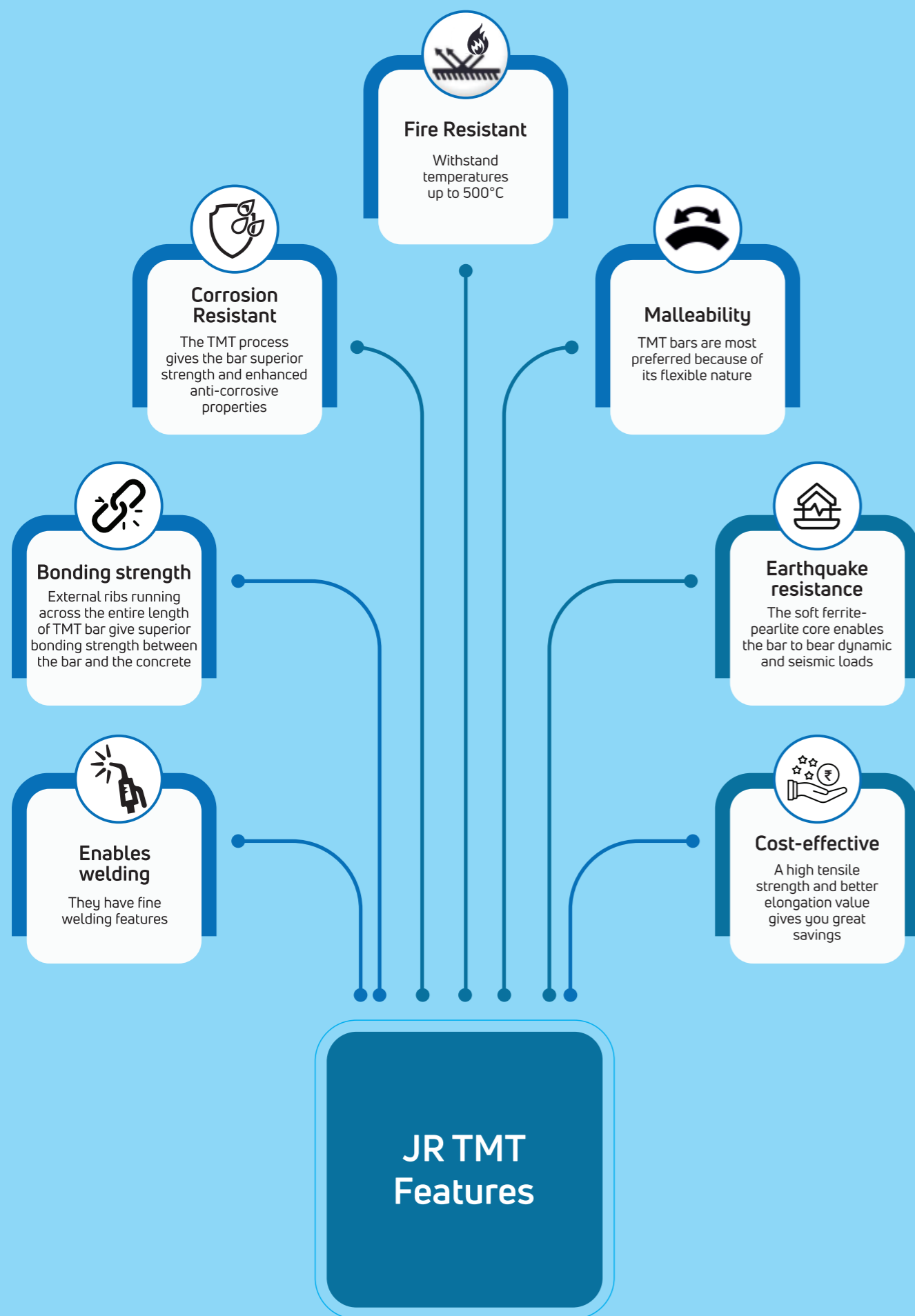


Laboratory Furnace (5 kg. capacity)

- Actual production simulation possible
- Facilitates actual working conditions, testing & analysing
- Enhances predictability, consistency, and long-term reliability of steel

- Cleaner Manufacturing
- Reduced Carbon Footprint
- Sustainable, Future-Ready Steel





Specifications

The quality of steel can make all the difference between a construction that will just last and one that will last for generations.

That's exactly why JR TMT stands apart from the rest. Our commitment to quality is carried out by qualified professionals & technicians who by their virtue, set personal goals to achieve the company's goals. We strive to provide the best steel and continuously keep in tune to the innovative and the latest approaches that are available in the market.

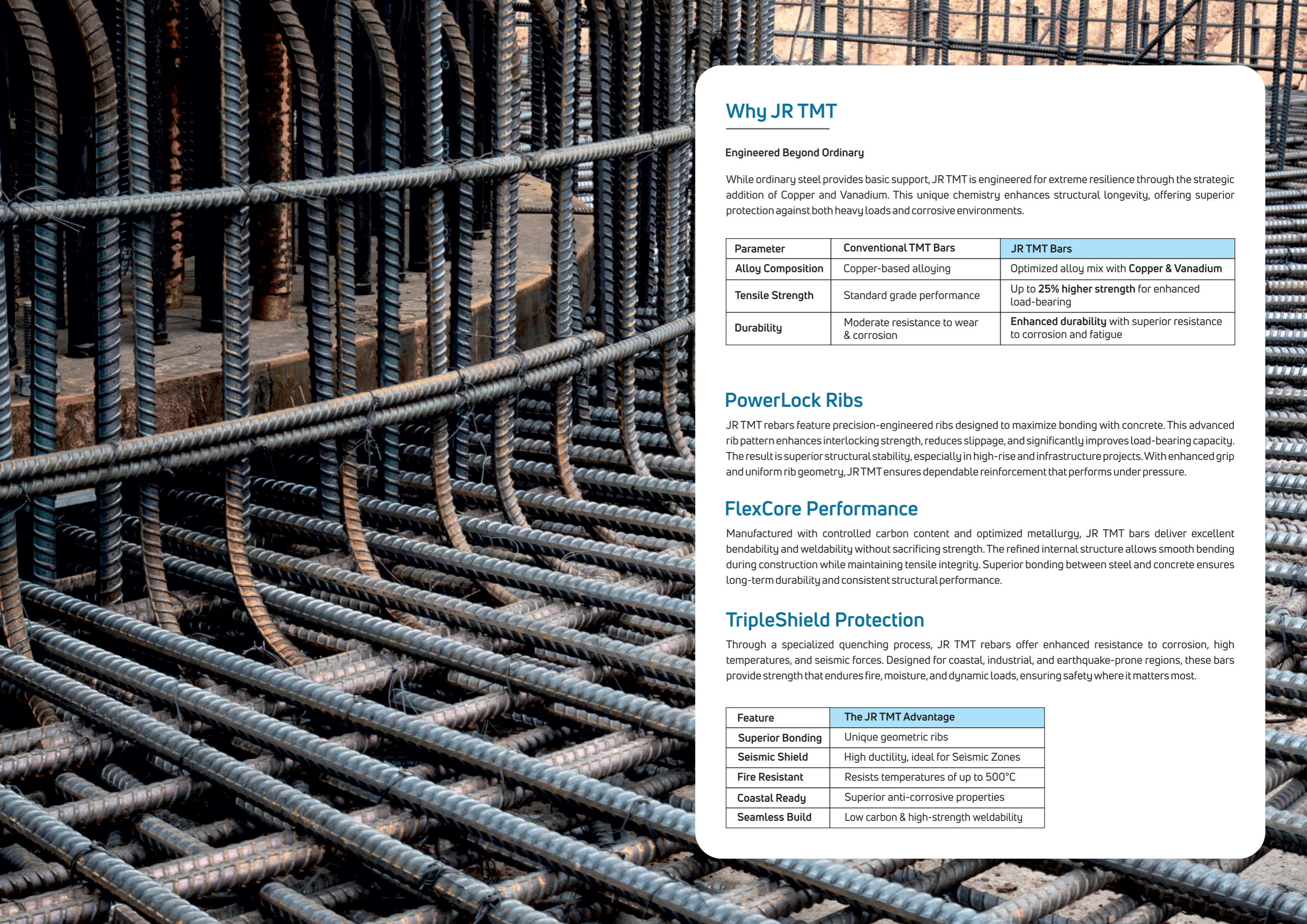
Physical Properties

Properties	FE 550 GRADE		FE 550 D GRADE	
	BIS	JR TMT	BIS	JR TMT
Yield Strength N/mm ² (Min)	550	580-610	550	580-610
Tensile Strength N/mm ² (Min)	585	585-640	600	585-640
Stress Ratio (TS/YS)-(Min)	1.06	1.18-1.22	1.10	1.18 -1.22
Elongation %	10	16-20	14.5	16-20

Chemical Properties

Properties	FE 550 GRADE		FE 550 D GRADE	
	BIS	JR TMT	BIS	JR TMT
Carbon (Max %)	0.30	0.18-0.22	0.25	0.18-0.22
Sulphur (Max %)	0.055	0.040-0.050	0.04	0.030
Phosphorous (Max %)	0.055	0.045-0.050	0.04	0.035-0.040
Sulphur & Phosphorous	0.10	0.09	0.075	0.072





Why JR TMT

Engineered Beyond Ordinary

While ordinary steel provides basic support, JR TMT is engineered for extreme resilience through the strategic addition of Copper and Vanadium. This unique chemistry enhances structural longevity, offering superior protection against both heavy loads and corrosive environments.

Parameter	Conventional TMT Bars	JR TMT Bars
Alloy Composition	Copper-based alloying	Optimized alloy mix with Copper & Vanadium
Tensile Strength	Standard grade performance	Up to 25% higher strength for enhanced load-bearing
Durability	Moderate resistance to wear & corrosion	Enhanced durability with superior resistance to corrosion and fatigue

PowerLock Ribs

JR TMT rebars feature precision-engineered ribs designed to maximize bonding with concrete. This advanced rib pattern enhances interlocking strength, reduces slippage, and significantly improves load-bearing capacity. The result is superior structural stability, especially in high-rise and infrastructure projects. With enhanced grip and uniform rib geometry, JR TMT ensures dependable reinforcement that performs under pressure.

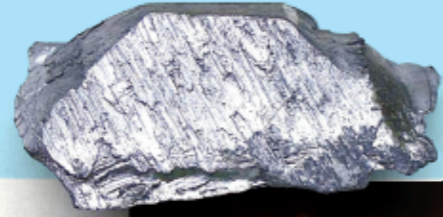
FlexCore Performance

Manufactured with controlled carbon content and optimized metallurgy, JR TMT bars deliver excellent bendability and weldability without sacrificing strength. The refined internal structure allows smooth bending during construction while maintaining tensile integrity. Superior bonding between steel and concrete ensures long-term durability and consistent structural performance.

TripleShield Protection

Through a specialized quenching process, JR TMT rebars offer enhanced resistance to corrosion, high temperatures, and seismic forces. Designed for coastal, industrial, and earthquake-prone regions, these bars provide strength that endures fire, moisture, and dynamic loads, ensuring safety where it matters most.

Feature	The JR TMT Advantage
Superior Bonding	Unique geometric ribs
Seismic Shield	High ductility, ideal for Seismic Zones
Fire Resistant	Resists temperatures of up to 500°C
Coastal Ready	Superior anti-corrosive properties
Seamless Build	Low carbon & high-strength weldability



Vanadium Enhanced Steel

At JR Metal, we enhance the performance of our TMT bars through advanced micro-alloying techniques using Vanadium, ensuring superior strength, durability, and structural reliability.

What is Vanadium?

Vanadium is a hard, silvery-grey transition metal known for its high strength, ductility, and excellent corrosion resistance. It is primarily used as an alloying element to strengthen steel for tools, automotive parts, and construction, and is critical for high-performance aerospace alloys.

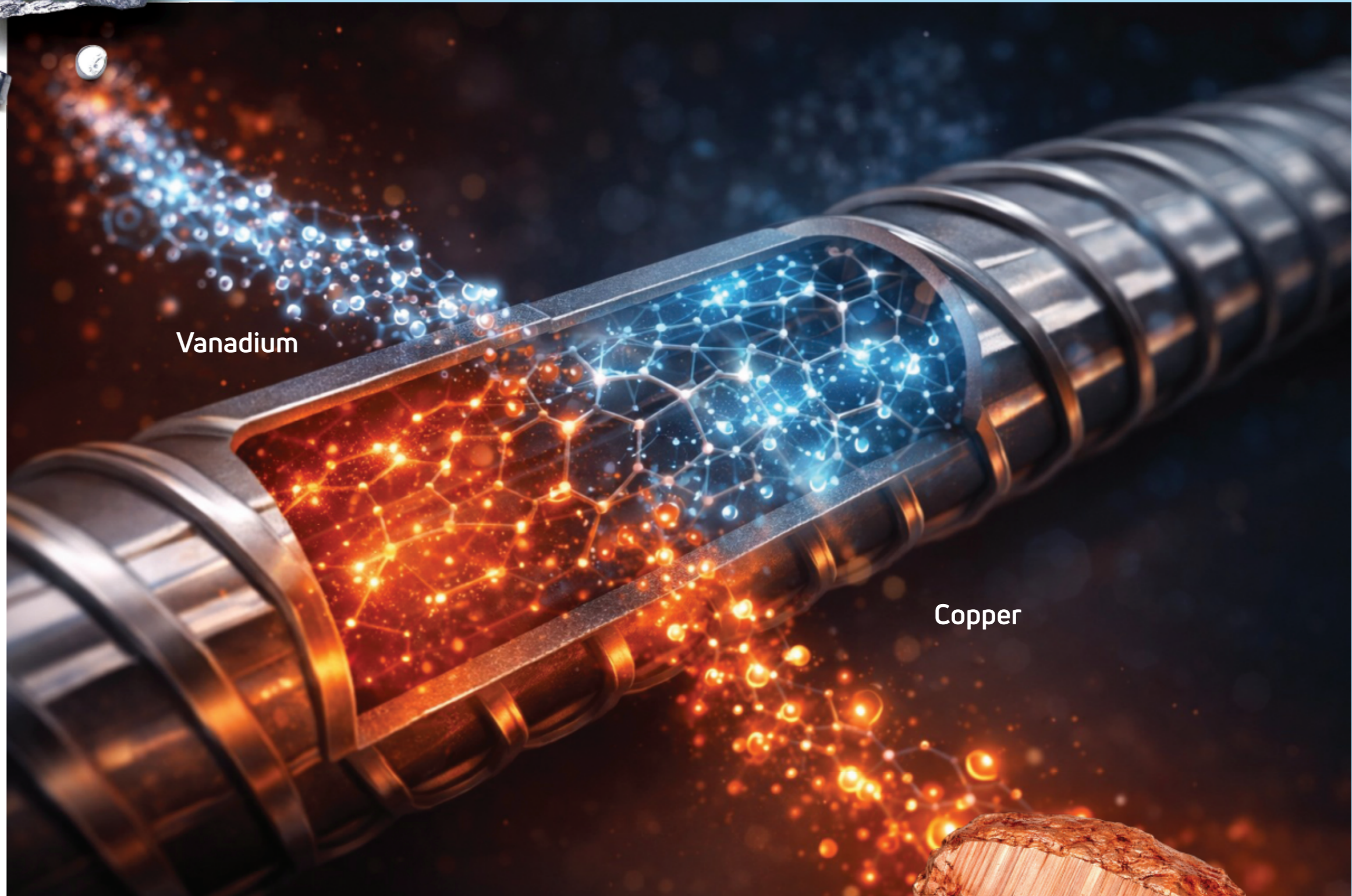
Role of Vanadium in TMT Manufacturing

- Increases yield strength and tensile strength
- Refines grain structure for better toughness
- Improves fatigue resistance
- Enhances consistency and reliability
- Allows higher strength without making steel brittle

Key Benefits for Construction

- Reduced steel consumption due to higher strength
- Improved earthquake resistance due to better ductility
- Longer structural life and durability
- Reliable and consistent performance on site

Vanadium micro-alloying enables JR TMT bars to achieve the perfect balance between strength and flexibility, making them ideal for modern construction requirements.



Solar Power Plant

Forging progress with Green Energy

Arani, Tiruvannamalai Dist (TN)



Shaping the Future of Steel with Sustainable Energy

At JR Metal, sustainability is built into the way we operate. As part of our long-term commitment to responsible manufacturing, we have established a **42 MW** solar power plant in Tamil Nadu. Spread across **100 acres**, the facility generates clean, renewable energy to power our steel production.

The plant operates under a group captive model, ensuring that the electricity produced is dedicated exclusively to our manufacturing operations. Power is transmitted through a 110 kV network to the state grid and adjusted against consumption at our Gummidipoondi unit. Today, solar energy meets more than **50% of our total power requirement**.

This transition to renewable energy significantly reduces our dependence on conventional power sources and helps us avoid over **60,000 tons of CO₂** emissions annually. The project results in greener steel, smarter energy use, and a manufacturing ecosystem aligned with the future of sustainable infrastructure, reflecting our commitment to energy efficiency, environmental responsibility, and sustainable industrial growth.

Building on this commitment, the company is actively investing in expanding its renewable energy capacity, with a clear vision to achieve 100% green power consumption in the near future.

Applications of Fe 550, CRS 550D

With an ever growing demand for stronger infrastructure JR TMT bar finds extensive use in a variety of modern construction.



Bridges



Ports



Railways



Metro Rails



National Highways



Landmark projects

- Kilambakkam New Bus Terminal •
- Natham to Thuvankurichi Highway •
- Madurai Alanganallur Jallikattu Stadium •
- Rajiv Gandhi Govt. General Hospital •
- Government Medical College, Virudhunagar •
- Madurai District Court •





JR TMT
BUILDING HAPPINESS

CERTIFICATE

CERTIFIED
CERTIFIED

Certifications

Commitment to Quality & Compliance

At JR Metal Chennai Limited, quality is not an inspection step - it is the foundation of everything we do. From raw material selection to final dispatch, every stage of production follows stringent quality control systems and industry best practices.

Our commitment to excellence has earned recognition from leading regulatory authorities and government bodies, reinforcing our reputation as a trusted steel manufacturer. These certifications stand as proof of our dedication to product integrity, operational discipline, and customer confidence.



ISO 9001:2015 – Quality Certification
Consistent and controlled manufacturing processes
Customer satisfaction through quality assurance
Continuous improvement across all operational levels



ISO 45001:2018 – Occupational Health & Safety Management System (OHSMS)
A safe and healthy work environment for our employees
Compliance with occupational safety laws and global best practices
Continual improvement in reducing operational hazards



ISO 14001:2015 - Environmental Management System (EMS)
Minimizing environmental impact
Ensuring compliance with applicable environmental regulations
Promoting sustainable resource use and waste management



Bureau of Indian Standards (BIS) – ISI Mark Certification

Billets - IS 14650: 2023 - License No. 0004736574 | **TMT Bars** - IS 1786: 2008 - License No. 0003468166

- Meet strict quality and safety benchmarks set by BIS.
- Manufacturing under licensed processes with regular surveillance checks.
- Trusted and approved for use in critical infrastructure and construction projects.

JR TMT CRS 550D

Built Different. Built Stronger.

Bureau of Indian Standards (BIS) – ISI Mark Certification

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 0004736574

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
0004736574	J.R. METAL CHENNAI LIMITED - PERIYAPULLIYUR VILLAGE POOVILAMBEDU POST KAVARAIPETTAI VIA , , GUMMIDIPOONDI : 601201	UNALLOYED AND ALLOYED STEEL INGOT AND SEMI-FINISHED PRODUCTS FOR RE-ROLLING PURPOSES - SPECIFICATION (First Revision)	IS 14650 : 2023

Endorsement No. 12 Dated 13-Mar-2026

Whereas, the licence was valid upto First April Two Thousand Twenty Six.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-MAR-2026 has been extended from First April Two Thousand Twenty Six to Thirty First March Two Thousand Twenty Seven

Other terms and conditions of licence remain same.

Branch Head (Chennai Branch Office)

BUREAU OF INDIAN STANDARDS

Attachment to Licence No. CM/L- 0003468166

CM/L-No	Name of the Licensee with the Factory Address	Name of the Product	Indian Standard No.
0003468166	J.R. METAL CHENNAI LIMITED -152, 153 Periyapulliyur village Poovalam pedu post, via.Kavarapettai Gummidipoondi TK , , Kavarapettai : 601206	High strength deformed steel bars and wires for concrete reinforcement-	IS 1786 : 2008

Endorsement No. 20 Dated 13-Mar-2026

Whereas, the licence was valid upto First April Two Thousand Twenty Six.

Now, consequent upon renewal, the validity of the licence given in schedule of the Licence Dated 31-MAR-2026 has been extended from First April Two Thousand Twenty Six to Thirty First March Two Thousand Twenty Seven

Other terms and conditions of licence remain same.

Branch Head (Chennai Branch Office)

Approvals

Proven Quality. Government Approved.

JR TMT bars are trusted and approved by multiple prestigious Central and State Government departments, reflecting our adherence to the highest benchmarks of quality, safety, and performance.

These approvals are a testament to the rigorous standards we follow throughout every stage of our manufacturing process, from material selection and production to testing and delivery. Being recognised by government authorities underscores our commitment to excellence and reinforces our position as a reliable supplier for both public and private infrastructure projects.

With these endorsements, JR TMT bars continue to stand as a preferred choice for projects that demand proven quality, uncompromised safety, and long-lasting performance.





GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT

CERTIFICATE OF PRODUCT APPROVAL

RENEWAL No. PWD / RC1 - 4B / 70 ASC / 2023 - 10 / dated 01.12.2023

The Assessment Committee constituted by the Government of Tamil Nadu vide G.O.Ms. No. 47, Public Works (G2) / dated 07.09.2023, in its 70th Online meeting held on 05th August 2020 have accorded approval for the product - "JR" - Fe 550 TMT Bars (8, 10, 12, 16, 20, 25 & 32mm dia) - High Strength Deformed steel bars and wires for concrete reinforcement (TMT) and have issued Product Approval Certificate in Approval No. PWD/NPA-004B/70ASC/2020/Dated 24.08.2020. Now, the Chairman of the Assessment Committee & Engineer-in-Chief & Chief Engineer (General), Public Works Department after examining various aspects has accorded approval for the Renewal of this product.

Products / Product Range : "JR" - Fe 550 TMT Bars (8, 10, 12, 16, 20, 25 & 32mm dia) - High Strength Deformed steel bars and wires for concrete reinforcement (TMT).

Manufacturer / Company : M/s JR Metal Chennai Limited
No.3, Manali Express Road, T.K.P Nagar,
Thiruvottiyur, Chennai - 600 019.

Location of Manufacturing Unit : Periyapuliur Village, Poovalmpedu Post via.
Kavarapettai, Gummidipoondi Taluk, Thiruvallur
District, Tamil Nadu - 601 206.

References : BIS License Number CM/L - 3468166

Standards/ Specifications : IS 1786:2008

Limitations:

1. Renewal is subject to validity and scope of BIS License for the product and compliance to the specification(s) mentioned.
2. Quality should be maintained conforming to the Test Results produced at the time of renewal and relevant BIS Standards.
3. Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu, failing which TNPWD reserves the right to cancel the approval.
4. The certificate is valid from 01.12.2023 up to & inclusive of 30.11.2026 for a period of three years.



Member Secretary, Assessment Committee &
Special Chief Engineer, PWD,
Planning and Designs Circle,
Chepauk, Chennai - 600 005.



Chennai Metro Rail Limited

(A Joint Venture of Govt. of India and Govt. of Tamil Nadu)

T. Livingstone Eliazer
Chief General Manager (PP & D)

Tel: 044 24378326
livingstone.eliazer@cmrl.in

Lr. No. CMRL/CON/DES/584/2023

Date: 07.08.2023

To Whomsoever it may concern

Sub: No objection to use the Products of M/s JR Metal Chennai Limited in CMRL Projects - Reg.

CMRL has "No objection" in usage of the following products of M/s JR Metal Chennai Limited by the contractors of Chennai Metro Project, provided the quality of the products meet the specifications as stipulated in the Contract.

1. JR TMT rebars

The approval is subject to the following conditions.

1. This approval is here by accorded on the condition of maintaining of quality as per stipulated Standards.
2. Mandatory quality checks will be carried out as and when required so as to satisfy the qualitative requirements.
3. Satisfactory performance tests to be conducted as site/approved laboratory initially & from time to as per standard practice / codes and also as directed by the Engineer in-charge.
4. In case of negative feedback or deterioration in quality, this approval will stand cancelled automatically.
5. CMRL reserves the right to suspend the usage on the basis of review any time.

However, it will not be binding on CMRL or their Contractors in any way for the usage of the above products in the project.

For Chennai Metro Rail Ltd.

T. Livingstone Eliazer
07/08/23
CGM - Project Planning and Design

Copy to: DP/CMRL for kind information please.

METROS, Anna Salai, Nandanam, Chennai - 600 035.

Email: chennaiemtorail@cmrl.in / Website: www.chennaiemtorail.org

CIN : U60100TN2007SGC065596

TAMIL NADU SLUM CLEARANCE BOARD

Circular No.SCB/ 17099/ SQC/2018

Dated: 25.10.2018

CIRCULAR

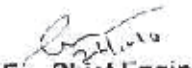
Sub: TNSCB – Construction of Tenements –Cement and Steel used in Projects – Instructions issued - Reg.

TNSCB has been executing projects with M25 Grade Concrete and Fe415 Grade Steel so far. With the 'Durability Criterion' gaining wide focus recently and also to cope up with prevailing market trends, we have to look forward to upgrade the Grades of Concrete and Reinforcing Steel for our projects. It is pointed out by the Superintending Engineers / Executive Engineers during review meetings that the availability of Reinforcement Steel i.e. Fe415 in the market is very much limited, as the Fe415 Steel has been replaced by higher Grades of Steel. It is also recommended by our Retainer Consultant that in conformity to IS456:2000, for projects exposed to coastal environment, TNSCB may adopt M30 Grade Concrete. Also, higher Grades of Steel i.e. Fe 500 & Fe 500(D) which was approved by BIS and Tamil Nadu PWD such as Tata Steel, SAIL "AGNI TMT" Fe500- "ARUN PLUS TMT" Fe 500 CR TMT Fe 500 can be adopted for Reinforcement Steel instead of Fe415 Grade which is available scarcely and every consignment must be checked as per IS specification before using in projects. Cement must be used as per IS specification and approved by BIS and Tamil Nadu PWD such as Arasu, L&T, Asian and every consignment must be tested by field Engineer before adoption for use.

Considering the above, the following instructions are issued:

- (i) In order to combat the effect of salt-laden sea breeze, all the projects situated within about 10 km distance from seashore shall be adopted with M30 Grade Concrete. The interior location projects shall be adopted with M25 Grade Concrete as per the prevailing practice.
- (ii) In order to be in tune with the latest trend and availability in the market, Fe500D (Ductile) Grade Steel shall be adopted for projects located in Seismic Zone III areas and Fe 500 Grade Steel for Seismic Zone II areas of Tamil Nadu.

All the Superintending Engineers, Executive Engineers, Assistant Executive Engineers, Assistant Engineers and Junior Engineers are instructed that the above instructions have to be followed scrupulously in all the Project Proposals.


For Chief Engineer

To

All Superintending Engineers / TNSCB
All Executive Engineers / TNSCB
All Assistant Executive Engineers / TNSCB
All Assistant Engineers and Junior Engineers / TNSCB

30
25/10/18



भारतसरकार GOVERNMENT OF INDIA
कार्यालयविशेषमहानिदेशक
OFFICE OF THE SPECIAL DIRECTOR GENERAL
केंद्रीयलोकनिर्माणविभाग CENTRAL PUBLIC WORKS DEPARTMENT
पहलीमंजिल "जी" विंगराजाजीभवन 1ST FLOOR, "G" WING, RAJAJI BHAWAN
तीसरेएवेन्यू, बसंतनगर 3RD AVENUE, BESANT NAGAR,
चेन्नई - 600090 CHENNAI - 600 090: PHONE:044-24465711
Email: chnee-works@cpwd.gov.in



File No: 36(3)/2023/NP/SDG (Chennai)/12-13 Dated: 03 .01.2024

CORRIGENDUM

Sub.: Approval of preferred make brand name "JR Metal Chennai Limited" - reg.
Ref.: OM issued by this office vide F.No.36(3)/2023/NP/SDG (Chennai)/953-960 dated 12/10/2023.

The Special Director General, CPWD, Chennai has approved the following brand of product vide O.M under reference above.

S. No.	Description of Item	Brand name of Product
1	Low alloy Steel reinforcement bars – TMT bars of Fe-550D grade conforming to IS 1786-2008 (With up to date amendment)	"JR Metal Chennai Limited"

In partial modification of Office Memorandum issued by this office vide F. No. 36(3)/ 2023/NP/SDG (Chennai)/ 953-960 dated 12/10/2023, the condition Para 1 of the O.M may be read as
"The above approval is on trial for two years only from the date of issue of the OM i.e., from 12/10/2023.

All other terms and conditions of the Office Memorandum issued vide F.No.36(3)/ 2023/ NP/SDG (Chennai)/ 953-960 dated 12/10/2023 shall remain unchanged except stated above.

This issues with approval CE (W& TLQA), O/o SDG Chennai, CPWD

[Signature]
03/01/24
[Er. G Vinayaga Mourty]
Executive Engineer (C)-1

Copy to:

1. The Chief Engineers, Chennai and Madurai, SE cum PDs, IITM Project Circle, Chennai, Karaikal Project Circle, Karaikal, Trichy Circle, Trichy, Pondicherry Project Circle at Aeroville, Pondicherry and Pondicherry Circle, Pondicherry.
2. M/s JR METAL Chennai Ltd., No.3, Manali Express Road. T.K.P. Nagar, Thiruvotriyur, Chennai -600 019. for kind information.

[Signature]
03/01/24
Executive Engineer (C)-1

श्री. विनायक मूर्ति / G. VINAYAGA MOURTY
कार्यवाहक अभियंता (सि) व.ए.ए.ए.
Executive Engineer (C) TLQA
कार्यालय विशेष महानिदेशक, चेन्नै, के.पी.वि.डि.
O/o Special Director General, Chennai, C.P.W.D.,
राजाजी भवन, चेन्नै-90 / Rajaji Bhawan, Chennai-90.

HIGHWAYS DEPARTMENT

From

To

Thiru. A.Chandrasekaran M.Tech.,
Assistant Director (H),
Highways Research Station,
Regional Laboratory, Coimbatore.

The Vice President,
Sales and Marketing,
JR Metal Chennai Ltd.
Chennai.

Lr.No. 19 / 2024-25 / Steel / dated: 23.08.2024

Sir,

Sub: HRS – Concrete Lab – PWD – Product Approval – 79th Product Assessment Committee held on 27.06.2024 at 2.30pm in PWD Campus, Chepauk, Chennai-5 - JR Fe 550D - Steel test results - submitted - Regarding.

Ref: 1.The Director, Highways Research Station, Guindy, Chennai-600025.
Lr.No: C87/ Steel/AE/CON/HRS/2024-25/ Dated: 07.08.2024
2. The Vice President, Sales and Marketing, JR Metal Chennai Ltd., Lr.No. Nil, Dated: 20.07.2024 (Enclosing the Executive Engineer, PWD, Tamilaga Arasu Building Research Station, Taramani, Chennai Letter. No. EE / 79th ASC / TABRS / 2024 / 89 / Dated: 02.07.2024)

As requested in the above reference (2), necessary tests have been conducted on the received steel samples of 8mm, 10mm, 12mm, 16mm, 20mm, 25mm and 32mm diameter of JR TMT Fe 550D and the test report is enclosed herewith.

Encl: Steel test report.

[Signature]
23/8/24
Assistant Director (H),
Highways Research Station,
Regional Lab, Coimbatore

Copy submitted to The Director, Highways Research Station, Chennai for favour of kind perusal



ދިވެހިރާއްޖޭގެ ޖުމްހޫރިއްޔާ ގުޅިގެން ދިވެހިރާއްޖޭގެ ޖިއާރިޔާކުރުމުގެ ޖުމްހޫރިއްޔާ

PRODUCT APPROVAL CERTIFICATE

FOR CONSTRUCTION MATERIAL IMPORT AND PRODUCTION

Business Name | ޕްރޮޑިއުސަރުގެ ނަންމު

NBCC (India) limited

ޕްރޮޑިއުސަރުގެ ނަންމު (ޕްރިންޓް ކުރެވިފައިވާ)

Product Approval Number | ޕްރޮޑިއުސަރުގެ ނަންމު

PAC2023-1023

Date of Issuance: 17/May/2023 2023 ޖުމްހޫރިއްޔާ 17
Date of Expiry: 16/May/2024 2024 ޖުމްހޫރިއްޔާ 16

Business Registration No: FC00042021 FC00042021 ޕްރޮޑިއުސަރުގެ ނަންމު
Business Address: 11307, Rabarugas Magu 6, Hulhumale 11307 ޕްރޮޑިއުސަރުގެ ނަންމު

Customs Registered Number | ޕްރޮޑިއުސަރުގެ ނަންމު

C24575

Customs Registered Name | ޕްރޮޑިއުސަރުގެ ނަންމު

NBCC (INDIA) LIMITED

Product Category | ޕްރޮޑިއުސަރުގެ ނަންމު

Steel

Product Details | ޕްރޮޑިއުސަރުގެ ނަންމު

Steel Grade FE500D 8, 10, 12, 16, 20, 25, 32 mm Ø

Material Produced | ޕްރޮޑިއުސަރުގެ ނަންމު

Cement / ސިމެންޓް
Aggregate / ޕްރޮޑިއުސަރުގެ ނަންމު
Sand / ފަނޑު
Steel / ފަނޑު
Ready-mix Concrete / ރީޑީ-މިކްސް ސިމެންޓް
Ready-made Blocks / ރީޑީ-މެޑް ބްލޮކްސް

Material Imported | ޕްރޮޑިއުސަރުގެ ނަންމު

Aggregate / ޕްރޮޑިއުސަރުގެ ނަންމު	Cement / ސިމެންޓް	Steel / ފަނޑު
HS Code 2517100010	HS Code 2523290011	HS Code 7213100000
Ready-made Blocks / ރީޑީ-މެޑް ބްލޮކްސް	Sand / ފަނޑު	HS Code 7213990000
HS Code 6810110010	HS Code 2505100010	HS Code 7214200000
6810110011	2505900010	7216320000
6810190013	2505900014	7216330000
6904100000	2517490010	7216690012
6810110012	2517490012	

HS Code Description | ޕްރޮޑިއުސަރުގެ ނަންމު
IRON/STEEL BARS & RODS, HOTROLLED, TWISTED/WITH DEFORMTNS FROM ROLLING PROC.

Manufacturer Name
JR Metal Chennai Limited
Manufacturer license No.
U27310TN2008PLC069998

Country of Origin
India

Authorized By

Mohamed Siraj
Architect



GOVERNMENT OF TAMIL NADU
PUBLIC WORKS DEPARTMENT

CERTIFICATE OF PRODUCT APPROVAL

APPROVAL No. PWD / NPA-01 / 79 ASC / 2024 / dated 12.09.2024

The Assessment Committee constituted by the Government of Tamil Nadu vide G.O.Ms. No. 47, Public Works (G2), dated 07.09.2023, under the Chairmanship of Engineer-in-Chief, Chief Engineer (General), Public Works Department examined various aspects of the following products in its 79th meeting held on 27th June 2024 and have accorded approval.

Products / Product Range : "JR" - Fe 550D TMT Bars (8, 10, 12, 16, 20, 25 & 32mm dia) - High Strength Deformed steel bars and wires for concrete reinforcement.

Manufacturer / Company : M/s. JR Metal Chennai Limited
No.3, Manali Express Road, T.K.P Nagar, Thiruvottiyur, Chennai - 600 019.

Location of Manufacturing Unit : 152,153, Periyapuliur Village, Poovalmpedu Post via. Kavaraipetta, Gummidipoondi Taluk, Thiruvallur District, Tamil Nadu - 601 206.

References : BIS License Number CM/L -3468166

Standards/ Specifications : IS 1786:2008

Limitations:

1. Approval is subject to validity and scope of BIS License for the product and compliance to the specification(s) mentioned.
2. Quality should be maintained conforming to the Test Results produced at the time of approval and relevant BIS Standards.
3. Any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate should be notified to the Assessment Committee, PWD, Government of Tamil Nadu, failing which TNPWD reserves the right to cancel the approval.
4. The certificate is valid from 12.09.2024 up to & inclusive of 11.09.2027 for a period of three years.



Member Secretary, Assessment Committee &
Superintending Engineer, PWD
Planning and Designs Circle
Chepauk, Chennai - 600 005.



TAMIL NADU HOUSING BOARD
CERTIFICATE OF PRODUCT APPROVAL
Approval No. TNHB/QC/RC-5/12/2025/ Dated: 24.12.2025.

The Chief Engineer, Tamil Nadu Housing Board has examined various aspects of the following product with reference to your letter dated 22.12.2025 and has accorded **RENEWAL ON 24.12.2025** for your **"JR Metal Chennai Ltd"**. The details are given below

1. Name of the Products/Product Range :: "JR" Fe 550 TMT Bars (8,10,12,16,20,25 & 32mm dia) High Strength deformed Steel Bars and Wires for Concrete Reinforcement (TMT).
2. Manufacturer Address (Company Address) :: JR Metal Chennai Limited, No.3, Manali Express Road, T.K.P Nagar, Thiruvottiyur, Chennai-600019.
3. Location of the Manufacturing Unit :: Periyapuliur Village, Poovalambedu Post, Kavaraipettai (Via), Gummidipoondi Taluk, Thiruvallur District-601206, Tamil Nadu.
4. Testing Agencies and Test Certificate Ref :: 1. Microlab Certificate No. TRCG/25-26/4372-1 to 4372-7, dated: 18.12.2025 (7 Reports).
5. PWD Approval :: Renewal No. PWD/ RC1-4B/70ASC/2023-10/dated: 01.12.2023, valid upto 30.11.2026.
6. BIS License Number/ Reference :: BIS License No. CM/L-3468166 (For Steel) Validity date 31.03.2026
7. IS Standards/Specifications :: IS- 1786:2008

Limitations:

This Approval is based on the PWD approval and Scope of BIS License for the product and Test Certificate for the above materials as per test report furnished.

1. Approval is subject to test report for the product and compliance to the specification mentioned.
2. Test results copy of the lot should be produced along with all supplies to TNHB site (adhering to the test result produced at the time of this approval).

3. If any change of materials, manufacturing process, quality control routines that may affect the validity of this certificate is found, it should be notified to The Chief Engineer, Tamil Nadu Housing Board who is empowered to cancel the use of the products in TNHB and hence its approval also.
4. Validity of this approval is up to and inclusive of **23.12.2026** (For renewal/review, fresh letter & test certificates should be submitted before this validity).
6. This approval is subject to satisfactory field performance, continuing surveillance Audits, and strict conformity to the constructions of TNHB. This approval does not however absolve the Executive/Supervisory staff from the responsibility for using prescribed quality products.



Sanjay
Superintending Engineer
Quality Control, TNHB,
CIT Nagar, Chennai-35.
SUPERINTENDING ENGINEER
QUALITY CONTROL
TAMILNADU HOUSING BOARD
CHENNAI

To
JR Metal Chennai Limited,
No.3, Manali Express Road, T.K.P Nagar,
Thiruvottiyur, Chennai-600019.

Copy to:
All the SE's and EE's of Circles/Divisions.

TAMIL NADU POLICE HOUSING CORPORATION LTD.,



(A Government of Tamil Nadu Undertaking)
(ISO 9001:2015 Certified Company)
132, E.V.R. Salai, Kilpauk, Chennai - 600 010.
Email: cedbhdo@gmail.com
Phone: 044-28364761, 28364762, 28364763, 28364764



Lr.No. CE/DB/987-2/2024

Date:10.10.2024

Registered Post with Acknowledged Due

Sub: TNP HC - Brand M/s. JR Metal Chennai Limited -
" JR " Brand Product - Approval - Intimation - Reg.

Ref:- (1) Your requisition Lr.No. Nil Dt: 02.01.2024
(2) Receipt of brand registration fee Dt.23.09.2024

Your attention is invited to the above references cited and it is informed that based on the credentials furnished by you, the "JR" Brand product of Fe 550 TMT Bars (8,10,12,16,20,25 & 32mm dia) - High Strength deformed steel bars and wires for concrete reinforcement (TMT) - IS 1786:2008 (CM/L-3468166) have been approved to use in TNP HC Ltd projects and this certificate is valid for three years.

It may please be noted that this product approval does not confer any right to claim to insist the contractor to purchase the above products / materials only from your company. It is the sole discretion of the Chief Engineer, Superintending Engineer, Executive Engineer also the particular contractor to purchase the materials to use on our works as per the tender / agreement conditions.

Further, it is informed to you that you are requested to produce necessary test certificates along with each and every consignment. Also you are requested to produce ITC & GST for three years once to this office without fail.

/2/

The receipt of this letter may be acknowledged.

Sd/...
Chief Engineer/TNP HC

To:

M/s. JR Metal Chennai Limited
No.3, Manali Express road,
T.K.P Nagar, Thiruvottiyur
Chennai - 600 019

Copy to

All the SEs & EEs of TNP HC Ltd., with the instruction that suitable guideline shall be issued to the field staff that they should insist to get test certificate along with each consignment without fail. If the performance of the Products seems to be unsatisfactory, the same should be brought to the notice of the undersigned with relevant record at once.

/Forwarded / By Order/

P. Sankar
10/10/24
Senior Draughting Officer



इस्पात मंत्रालय
MINISTRY OF
STEEL



GREEN STEEL CERTIFICATE

NATIONAL INSTITUTE OF SECONDARY STEEL TECHNOLOGY
MANDI GOBINDGARH (INDIA)

National Institute of Secondary Steel Technology (Established by Ministry of Steel, Government of India at Mandi Gobindgarh, India) certifies that **M/s JR METAL CHENNAI LIMITED, PERIYAPULIYUR VILLAGE, GUMMIDIPOONDI, THIRUVALLUR, TAMIL NADU** has produced **163314** tonnes of steel during FY 2024-25 of **TMT Bars**, which has average emission intensity of **0.7633 t-CO₂e/tfs**.

This product is rated **5 star** and has **65.3%** greenness in terms of Government of India's Notification No. 1(6)-2024-ID-2 dated 23-12-2024.

Government of India

This certificate is valid upto **31-03-2026**.

Certificate No. **GS0027/01**

Date of Issue : **28-10-2025**

Arivatsingh

DIRECTOR
NISST

This Certificate is verifiable on



Disclaimer : This certificate is issued to indicate only the associated CO₂ emissions with production of the concerned steel product in t-CO₂e/tfs.

The JR TMT Advantage



Precision-Engineered Manufacturing

JR TMT is produced using advanced induction furnace technology with precise process control, ensuring consistent and high-quality molten steel. The integration of continuous casting and automated rolling mills enables uniform shape, superior strength, and highly reliable TMT rebars.

Superior Strength, Consistent Performance

Through an optimized manufacturing process and strict quality control, JR TMT bars deliver exceptional consistency in strength and performance. Every batch is engineered to meet stringent standards, ensuring reliability across all construction applications.



Advanced Quality Testing & Traceability

Every JR TMT bar undergoes rigorous testing through fully equipped in-house laboratories with modern UTM machines and spectrometers. Each product is traceable to its heat number, ensuring complete transparency in quality and material composition.

Premium Raw Materials, Assured Quality

JR TMT is manufactured using high-grade sponge iron and carefully selected raw materials. This ensures superior chemical composition, enhanced durability, and long-lasting structural integrity in every bar produced.



Excellent Finish & Corrosion Resistance

With controlled cooling processes and advanced quenching systems, JR TMT bars achieve a smooth surface finish and superior corrosion resistance. This makes them ideal for long-lasting construction, especially in coastal and high-humidity environments.

Green & Sustainable Steel Powered significantly by renewable energy from solar and wind sources, JR TMT reflects a strong commitment to sustainable manufacturing and reduced carbon footprint.

Energy Excellence & Sustainable Manufacturing

JR Metal is committed to integrating energy efficiency, sustainability, and regulatory compliance into every aspect of its operations. With a strong focus on responsible manufacturing and continuous improvement, the company has established a robust energy framework that enhances performance while minimizing environmental impact.

Energy Policy & Strategic Focus

The company actively works towards minimizing specific energy consumption (kWh per metric ton of steel) through continuous monitoring, benchmarking, and periodic energy audits. By leveraging advanced equipment, process integration, and operational controls, JR Metal consistently reduces energy intensity across its production cycle. A significant emphasis is placed on increasing the share of renewable energy through investments in solar and wind power, supporting long-term sustainability and reduced dependence on conventional energy sources.

Automation and digital monitoring systems play a crucial role in optimizing plant performance. Advanced technologies ensure efficient utilization of electrical and thermal energy, while aligning operations with energy conservation standards prescribed by the Bureau of Energy Efficiency and the Ministry of Power.

Energy-Efficient Manufacturing Process

JR Metal follows a highly optimized steel manufacturing process designed to maximize thermal efficiency and minimize energy losses. Production begins with the melting of sponge iron and scrap in advanced induction furnaces, followed by continuous casting into billets under controlled conditions.

A key differentiator is the adoption of direct hot charging, where billets are transferred to the rolling mill at high temperatures immediately after casting. This eliminates the need for reheating furnaces—one of the most energy-intensive stages in conventional steel plants. This integrated approach delivers multiple advantages:

- Significant reduction in thermal energy consumption
- Elimination of fuel usage for reheating
- Faster production cycles and improved throughput
- Reduced oxidation losses and better material yield
- Consistent metallurgical properties

The rolling process further incorporates thermo-mechanical treatment using controlled water quenching, achieving required strength and ductility without additional energy-intensive processes.

Key Energy Conservation Measures

JR Metal has implemented a range of targeted initiatives to enhance energy efficiency:

- Continuous Casting with Hot Charging: Eliminates reheating, saving substantial energy
- Energy-Efficient Motors & VFDs: Optimize power usage and reduce peak loads
- Power Factor Correction Systems: Improve electrical efficiency and minimize losses
- Advanced Insulation & Cooling Systems: Reduce thermal losses and enhance product quality
- Department-wise Energy Monitoring: Enables real-time tracking and data-driven improvements

Commitment to Sustainability

Through its integrated approach, JR Metal significantly reduces carbon emissions, enhances energy efficiency, and promotes cleaner industrial practices. The company continues to expand its renewable energy portfolio with a clear vision of achieving higher levels of green energy utilization in the near future.

Group/Associate Companies

Narayan Industries

Established in 1990 as the founding company of the JR group, Narayan Industries has been a key player in the manufacturing of light structural steel products including MS Flats, MS Angles, MS Rounds, MS Square and MS Channels. The Company serves as the trading arm for the group. Over the years, the company has strategically expanded its operations, with a major share of its revenue now driven by the trade and export of industrial supplies, serving both domestic and international markets. With over two decades of specialized experience in light structural steel, the company has grown into a market leader in Tamil Nadu, known for its consistency, reliability, and product quality.

Janakiram Steel and Power Pvt. Ltd.

Established in 2004, Janakiram Steel and Power Pvt. Ltd. was set up by the JR Group to cater to the growing demand for structural steel products. The company operates an integrated manufacturing facility, producing high-quality structurals through the processing of imported scrap into ingots, ensuring consistent quality and operational efficiency. With a forward-looking vision to contribute to the nation's energy needs, the company has also diversified into renewable energy, setting up windmills with a combined capacity of 3.75 MW in Tirunelveli District, contributing clean power to the grid. Today, this company stands as a strong pillar of the group, combining manufacturing excellence with sustainable energy initiatives.

Indo Metal Trading LLP

Indo Metal Trading LLP (IMT) is a specialized metal recycling, processing, and trading company focused on delivering high-quality ferrous scrap solutions to India's rapidly growing foundry and steel manufacturing ecosystem. The company operates across the entire scrap value chain, from collection, segregation, and dismantling to processing and supply of ferrous materials, including MS plate cuttings, LMS bundles, CR bundles, castings, and other customized scrap grades.

India's foundry industry continues to face a critical challenge, the lack of reliable suppliers capable of consistently delivering specific scrap grades that meet stringent metallurgical and process requirements. IMT was established to bridge this gap, bringing structure, reliability, and quality assurance into the fragmented scrap supply chain. With a strong focus on precision, consistency, and customer-centric operations, IMT has positioned itself as a trusted partner for foundries and steel manufacturers seeking dependable and specification-driven scrap solutions.



Our Approvals



Central Public Works Department (CPWD)



Tamil Nadu Housing Board (TNHB)



Tamil Nadu Police Housing Corporation (TNPHC)



National Highways Authority of India (NHAI)



Chennai Metro Rail Limited (CMRL)



Public Works Department



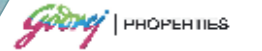
Tamil Nadu Slum Clearance Board (TNSCB)



Highways Department

JR TMT CRS 550D

Esteemed Clientele



JR TMT Plant

