

IWW STEEL INDUSTRIES (PVT) LTD



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RS RB500 QST REBAR | BUILT TO LAST

 www.rs.lk





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RS Steel

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Manufacturing Plant:

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**THE STEEL OF
SRI LANKA**



FROM THE DESK OF THE CHAIRMAN

At IWW Steel Industries (Pvt) Ltd, our journey has been driven by a clear vision-to deliver high-quality steel products that contribute to the growth and development of our nation. From our humble beginnings to becoming a recognized name in the steel industry, our progress has been built on commitment, innovation, and trust.

The introduction of RS Brand QST Bars marks a significant milestone in our journey. With a strong focus on quality, safety, and performance, we have adopted advanced manufacturing technologies such as the Thermex process to ensure our products meet and exceed both local and international standards. Our goal is to provide reliable and durable steel solutions that support modern construction needs, including high-rise developments and infrastructure projects.

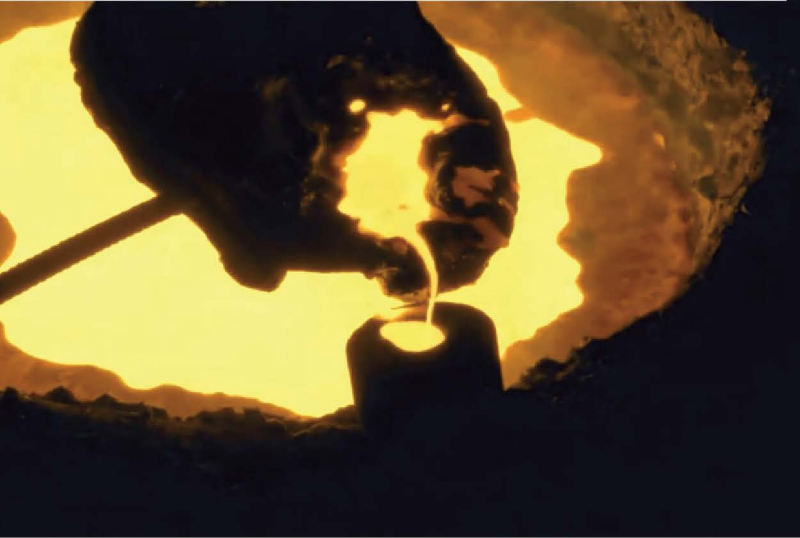
We strongly believe that our success lies in the strength of our people, the trust of our customers, and our ability to continuously improve. By investing in modern technology, skilled human resources, and efficient processes, we aim to deliver excellence in every product we manufacture.

As Sri Lanka continues to grow, IWW Steel Industries remains committed to playing a vital role in building a stronger and more sustainable future. We will continue to uphold the highest standards of quality, integrity, and customer satisfaction in all our endeavors.

I extend my sincere gratitude to our valued clients, partners, and dedicated employees for their continued support and confidence in us.

Dr. Sivalingam Ramesh

Chairman - IWW Steel Industries (Pvt) Ltd



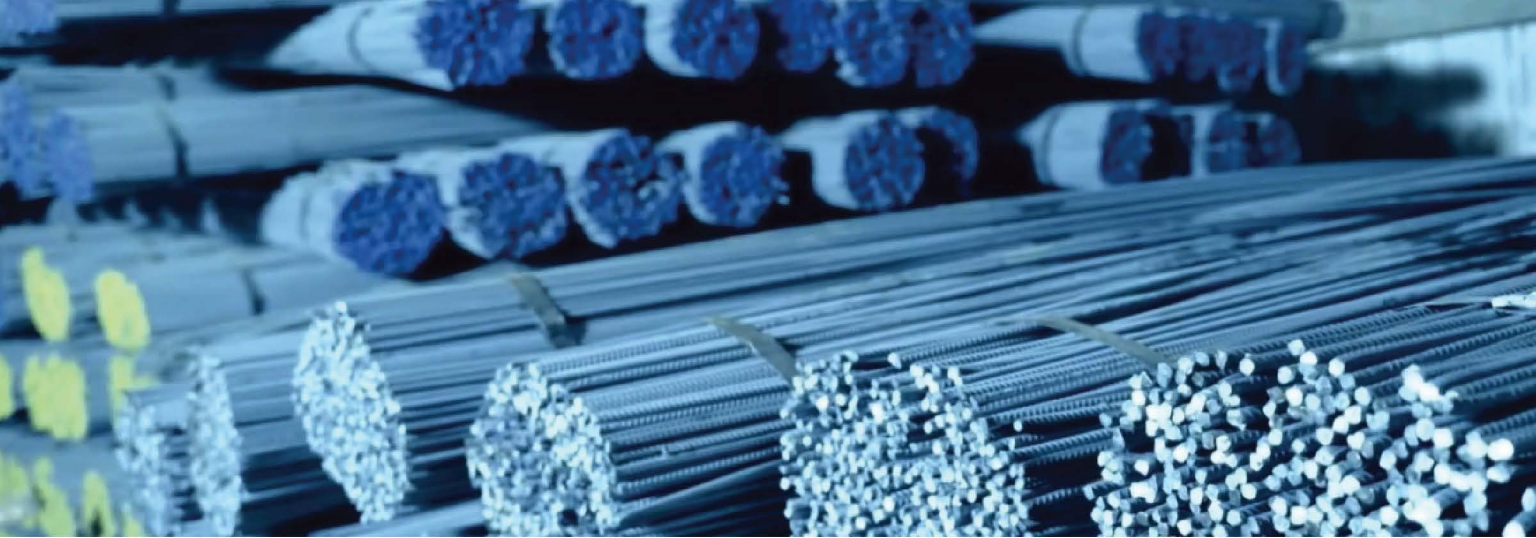
Our Journey

Established in 2009, IWW Steel Industries (Pvt) Ltd was founded to meet the growing demand for high-quality steel in Sri Lanka's construction sector. Since then, the company has grown through continuous investment in modern technology, skilled personnel, and efficient manufacturing.

The introduction of RS Brand QST Bars strengthened the company's position in the market, offering reliable, high-performance reinforcement steel for residential, commercial, and infrastructure development.

Operating from its modern manufacturing facility in Uswetakeiyawa, IWW Steel Industries maintains a strong focus on quality, consistency, technology, and continuous improvement, ensuring reliable products and responsive customer service.

Under the leadership of Dr. Sivalingam Ramesh, the company continues to strengthen the RS Brand and contribute to Sri Lanka's construction industry through quality, innovation, reliability, and customer confidence.



Steel Expertise

As Sri Lanka's housing and infrastructural development accelerates, the company identified a strong opportunity to expand into the retail market with the launch of RS RB 500 QST Rebar. Inspired by the power and agility of black felines, the RS brand reflects key product qualities such as strength, bendability, weldability, and flexibility, creating a memorable connection with end users.

RS QST continues to strengthen its market presence by optimizing resources, investing in advanced technologies, and adopting effective marketing strategies. With strong business acumen and a commitment to professional excellence, IWW Steel Industries aims to maintain its

leadership by delivering high-performance QST bars and a complete range of steel products. The company consistently strives to exceed industry benchmarks, redefine quality standards, and enhance customer satisfaction across all sectors.

In addition to the manufacturing of RS brand QST rebars, IWW Steel Industries trades a comprehensive portfolio of products, including mild steel rounds, mild steel squares, mild steel angles, GI pipes, mild steel coils, and steel rods. The company serves both immediate and bulk requirements across diverse engineering and industrial sectors island-wide and also provides technical consultations tailored to specific project needs.



Vision

To be Sri Lanka's most trusted and technologically advanced steel manufacturer, providing world-class steel products that build a stronger future.

Mission

To deliver superior steel solutions through advanced technology, a skilled workforce, sustainable manufacturing practices, and customer-focused service, while consistently providing exceptional service with integrity and continuously optimizing operations for sustainable growth.

The company is committed to building a strong, united, and highly capable team, maximizing the use of resources and materials in Sri Lanka, enhancing the quality of building materials through innovation and continuous improvement, and delivering effective solutions that enable clients to access reliable, high-quality construction materials.

Core Values

- ▶ **Quality First**
Every product meets global standards.
- ▶ **Integrity & Transparency**
Building trust with partners and clients.
- ▶ **Innovation**
Continuously improving processes and technology.
- ▶ **Safety**
Ensuring a safe workplace and safe products.
- ▶ **Sustainability**
Minimizing environmental impact through responsible manufacturing.

Why Choose RS Brand?

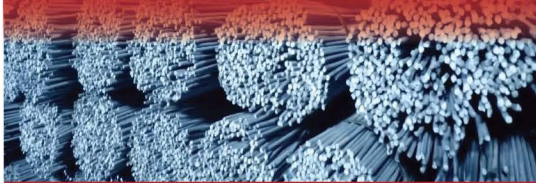
- ▶ Trusted brand with proven project experience
- ▶ Competitive pricing with premium quality
- ▶ End-to-end service from design to delivery
- ▶ Commitment to customer satisfaction
- ▶ Ability to meet urgent and bulk orders
- ▶ Long-term partnership approach



PRODUCT RANGE

RS RB500 QST Rebar

High-yield reinforcement steel,
SLS 375:2009 (RB500), BS
4449:2005 compliant



Sizes: 8-20 mm | Lengths: 6 m / 12 m

RS MS ROUND BARS

Mild steel round bars, SLS 949:1
and SLS 375:2009, Grade 5275



Sizes: 10, 12, 16, 20 mm | Lengths: 6 m

Mild Steel Flat Iron

Mild steel flat bars for fabrication,
frames, and general construction



Sizes: All sizes | Lengths: All Lengths

Mild Steel Angle

Mild steel equal and unequal
angles for structures, racks, and
fabrication



Sizes: All sizes | Lengths: All Lengths



MANUFACTURING FACILITY

IWW Steel Industries (Pvt) Ltd uses a modern, high technology semi-automatic manufacturing system to produce RS QST bars in various diameters. Our process ensures high strength and consistent quality, using the latest Quenching and Self-Tempering (QST) thermo-mechanical treatment technology.

The manufacturing process begins with heating high-quality steel billets/ingots in a reheating furnace. These billets are then rolled through a sequence of rolling stands equipped with rolls ranging from 360 mm to 260 mm, progressively reducing the billet to the final size and shape of the reinforcing bar.

Each bar size is produced at precisely controlled rolling speeds. These speeds, along with the rolling sequence, are regulated through DC drives and PLC controls supported by sophisticated logic systems locally and remotely managed by experienced technicians. The ribs, sizes, and brand markings are inscribed onto the rolls using CNC machinery to ensure accuracy and consistency.

QST Treatment

After rolling, the QST process enhances the mechanical properties of the bars through three key stages:

1. Quenching

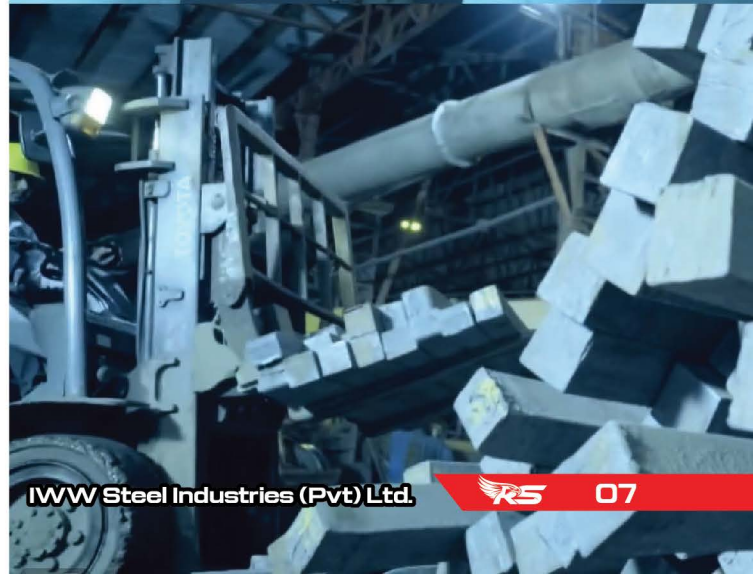
Licensed by New Field India under the globally recognized Thermex brand, quenching begins as the hot rolled bar exits the final mill stand. A high-pressure water spray unit rapidly cools the bar's surface, converting it to a hard martensitic layer, while the core remains austenitic (hot and softer).

2. Self-Tempering

As the bar leaves the quenching box, heat from the austenitic core transfers outward, tempering the outer martensitic layer. This forms a tougher and stronger structure known as Tempered Martensite, while the core remains austenitic at this stage.

3. Atmospheric Cooling

The bar is then transported through an automated twin-channel system to a 30-meter cooling bed, where it cools naturally in atmospheric air. During this final stage, the austenitic core transforms into a ductile Ferrite-Pearlite structure.





Final Structure & Performance

This three-stage treatment results in a bar with:

- ▶ A strong outer layer of Tempered Martensite
- ▶ A ductile inner core of Ferrite-Pearlite

This unique combination gives RS QST bars their superior strength and flexibility.

RS QST bars exceed the minimum yield strength requirements of SLS 375:2009.

- ▶ Typical yield strength: $\sim 500 \text{ N/mm}^2$
- ▶ Typical elongation: $\geq 22\%$

This exceptional ductility ensures significantly higher safety in structural applications, especially in demanding environments.

Technology

IWW Steel Industries offers its high-quality QST bars under the RS brand name. These bars are manufactured using the internationally recognized Thermex Process of German technology, ensuring superior metallurgical properties and consistent performance. We produce RS QST Bars in sizes ranging from 8 mm to 20 mm, available in RB 500 grade.

RS QST bars combine high strength with excellent ductility, making them exceptionally suitable for high-rise buildings and structures located in earthquake-prone zones (4 and 5). Their superior mechanical properties not only meet but exceed the requirements of SLS standards as well as several other international quality benchmarks.

Special Features

► Bundled and Automatically Strapped

All RS QST bars are bundled and automatically tied/strapped, ensuring minimal damage during handling, loading, and transportation.

► Tension-Free Rolling

Our Light and Medium Merchant Mill uses a tension-free rolling process, ensuring precise dimensional tolerances and consistent product quality.

► Fast and Reliable Delivery

We provide deliveries within 12–48 hours, reducing the need for clients to maintain large stocks.

Additionally, we deliver materials directly to your site, eliminating transit risks and ensuring a smooth and reliable supply chain.





QUALITY

The Quality Assurance Department is responsible for implementing quality standards and testing procedures for steel products during both production and finishing stages. This role includes performing quality control testing, maintaining accurate and comprehensive records, and conducting mill inspections to ensure all outputs meet specified requirements. Personnel must be proficient in reading and interpreting fabrication drawings with a high level of accuracy.

Additionally, precise measurement and verification of chemical composition, bar weight, tensile strength, elongation, bending properties, and overall steel dimensions are essential to ensure product quality and compliance with industry standards.

Quality Standards

IWW Steel Industries (Pvt) Ltd adheres to Sri Lanka Standards (SLS 375:2009) and follows strict material testing and quality control procedures to ensure that all steel products consistently meet required specifications and industry benchmarks. This commitment reflects the company's focus on maintaining high standards of quality, reliability, and compliance throughout the production process.





Chemical Tests

IWW Steel Industries conducts comprehensive chemical testing through the RS Quality Assurance Laboratory, ensuring every batch meets the highest material standards. Our team of experienced engineers, chemists, and technicians provide accurate test results and technical insights essential for maintaining product reliability and operational performance.

The RS Quality Assurance Department evaluates the chemical composition and performance of raw materials and product samples in accordance with SLS 375, relevant industry standards, technical specifications, and specific customer requirements.

If any material or product does not meet expectations, our laboratory specialists are fully equipped to perform a wide range of metallurgical analyses to identify root causes and recommend corrective actions.



375





Mechanical Tests

Our mechanical testing facilities are operated by a highly qualified team using state-of-the-art equipment to ensure the strength, durability, and consistency of RS QST bars. The following tests are routinely carried out to verify mechanical properties:

- ▶ Impact Testing
- ▶ Tensile Testing
- ▶ Hardness Testing
- ▶ Microstructure Analysis
- ▶ Elasticity Testing
- ▶ Yield Stress Evaluation

These tests ensure that RS QST bars consistently exceed required performance standards and maintain their reputation for strength, safety, and reliability.

Advantages

- ▶ **High Strength:** Designed to deliver superior tensile strength for robust and durable construction.
- ▶ **Higher Elongation:** Offers excellent ductility, making it safer and more reliable in earthquake-prone areas.
- ▶ **High Bend and Re-bend Properties:** Ensures flexibility for complex structural designs without compromising strength.
- ▶ **Corrosion Resistant:** Manufactured to withstand harsh environments, reducing long-term maintenance costs.
- ▶ **High Fatigue Resistance:** Performs exceptionally under repeated loading, making it ideal for high-stress structures.
- ▶ **Good Weldability:** Allows for smooth and secure welding during fabrication and construction.



Management & Workforce



Mr. SHYALAN RAMESH, *Director*

At IWW Steel Industries (RS Steel), contributing to strategic growth, operational excellence, and high-quality steel solutions in Sri Lanka.

He focuses on innovation, standards, and long-term industry impact. He holds a B.Sc. in Computer Science (Software Engineering, 2025) and is pursuing a B.Sc. (Hons.). A researcher in swarm robotics, he specializes in bio-inspired systems, AI, and full-stack development, applying data-driven solutions to industrial operations and steel manufacturing.



MR. MAITHREE DE SILVA, *General Manager*

At IWW Steel Industries, we believe that quality steel is more than a product—it is the foundation of strong homes, successful projects, and a stronger Sri Lanka. Since 2009, our journey has been driven by a commitment to quality, reliability, and continuous improvement.

The RS Brand represents our commitment to providing customers with dependable, high-performance QST reinforcement bars manufactured to meet the demands of modern construction. We continuously invest in technology, people, and processes to maintain the standards our customers expect from us.

Our strength comes from the dedication of our team, the trust of our customers, and the vision of our leadership. As we move forward, we remain committed to strengthening the RS Brand, expanding our capabilities, and creating greater value for our customers and the construction industry.



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