

India Quenched and Tempered Steel Market Report and Forecast 2025-2034

Market Report | 2025-07-14 | 106 pages | EMR Inc.

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Report description:

The India quenched and tempered steel market size is expected to grow at a CAGR of 3.10% between 2025 and 2034. The major market drivers are increasing infrastructural development, growing construction industry, and heightened automotive production.

Key Trends in the Market

Quenched and tempered steel is high-strength steel with high durability, ductility, and toughness that achieves its properties by undergoing processes of quenching and tempering. In quenching, the steel is heated to very high temperatures and subsequently undergoes rapid cooling. Tempering typically takes place after quenching, where the steel is heated for a certain amount of time and then cools off in air.

- The growing construction industry due to increasing population and rapid urbanisation and industrialisation is a key trend fuelling the growth of the market for quenched and tempered steel in India.
- Increasing initiatives taken by the government of India to strengthen the infrastructure of the country are also anticipated to positively influence the expansion of the India quenched and tempered steel market.
- Rising demand from the automotive sector for quenched and tempered steel due to propelling requirement for vehicles and increasing disposable incomes is another key trend fuelling the growth of the India quenched and tempered steel market.

Market Segmentation

The EMR's report titled "India Quenched and Tempered Steel Market Report and Forecast 2025-2034" offers a detailed analysis of the market based on the following segments:

Market Breakup by Grade

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- Grade 80
- Grade 400
- Grade 500
- Others

Market Breakup by Thickness and Width

- Thickness: 3 mm - 300 mm
- Width: 1000 mm - 4500 mm

Market Breakup by Usage

- Structural
- Pressure Vessels

Market Breakup by Application

- Automotive
- Shipbuilding
- General Engineering and Construction
- Chemical and Petrochemical
- Mining
- Aerospace
- Pulp and Paper
- Power Plants (Thermal and Renewable)
- Defence
- Nuclear
- Others

Market Breakup by Region

- North India
- East India
- West India
- South India

Market Share by Grade

Grade 80 is anticipated to account for a significant share of the India quenched and tempered steel market, over the forecast period. This is due to their wide range of applications in storage tanks, excavator and loader buckets, and high-rise buildings and bridges, among others. Meanwhile, grade 400 is projected to witness significant growth in the quenched and tempered steel market in India owing to their increased adoption in automotive industry in gear wheels. Grade 400 quenched and tempered steel is also used in making deflector plates that reduce the reverse torque by improving the coefficient of power.

Competitive Landscape

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The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis. The report gives a detailed analysis of the following key players in the India quenched and tempered steel market, covering their competitive landscape and latest developments like mergers, acquisitions, investments, and expansion plans.

SSAB AB

SSAB AB is a steel company that was founded in 1978 and is based in Stockholm, Sweden. They specialise in processing of raw materials to produce steel and aim to create a more sustainable world.

Nippon Steel and Sumitomo Metal Corporation

Nippon Steel and Sumitomo Metal Corporation is a steel manufacturing company that was founded in 1950 and is based in Tokyo, Japan. They are focused on steel fabrication and steel making, system solutions, and chemicals, and materials, among others.

Other market players include Essar Steel Ltd (Arcelor-Nippon Steel JV), JFE Steel Corporation, ThyssenKrupp AG, Wuhan Iron & Steel Group, Anshan Iron & Steel Group, Jiangsu Shagang Group, Posco, Baosteel Group Co Ltd, Bisalloy Steel Group, and Nanjing Iron & Steel Company Ltd, among others

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