

## **India Chromium Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)**

Market Report | 2025-06-28 | 116 pages | EMR Inc.

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### **Report description:**

The India chromium market was valued at USD 566.10 Million in 2024. The industry is expected to grow at a CAGR of 5.60% during the forecast period of 2025-2034. Expansion of renewable energy infrastructure in India, especially in wind and solar energy, creates demand for durable and corrosion resistant materials like chromium available in different grades across several industries. In turn, all these factors have resulted in the market attaining a valuation of USD 976.19 Million by 2034.

India Chromium Market Report Summary

Description

Value

Base Year

USD Million

2024

Historical Period

USD Million

2018-2024

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Forecast Period

USD Million

2025-2034

Market Size 2024

USD Million

566.10

Market Size 2034

USD Million

976.19

CAGR 2018-2024

Percentage

XX%

CAGR 2025-2034

Percentage

5.60%

CAGR 2025-2034 - Market by Region

South India

6.4%

CAGR 2025-2034 - Market by Region

West India

6.0%

CAGR 2025-2034 - Market by Application

Chemicals

6.7%

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## 2024 Market Share by Region

### North India

21.2%

## India Chromium Market Overview

The growth of the India chromium market is mainly driven by its key role in the manufacture of stainless steel, which increases corrosion resistance and strength. The growth of the automotive sector further strengthens the demand for chromium for the manufacturing of durable, corrosion resistant components. Improvements in chromium generation through improved chemical handling and increased recycling are changing the chromium production landscape. With their captive mines, several large firms, such as IMFA Group, Tata Steel Limited, Vedanta Resources plc., Sesa Goa Limited, and Jindal Stainless Limited, dominate the market. Nevertheless, elements like the lack of competent personnel and environmental laws pertaining to chromium plating procedures threaten the future expansion.

## India Chromium Market Growth

One of the niche markets driving chromium demand in India is the country's booming electronics industry. Chromium is a highly desirable alloy for semiconductors, connectors and other electronic components requiring corrosion resistance and high conductive properties. It has become widely used in most mobile phones, computers, and consumer electronics due to their durability and excellent performance. Further, chromium is also important in the process of water treatment and how contaminants are removed. India is facing water scarcity and pollution and hence, chromium compounds are used in advanced water purification systems, creating significant demand within this growing niche. This industry is growing exponentially due to the increasing awareness regarding the environment.

## Key Trends and Recent Developments

The key trends of the India chromium market include technological advances, export restrictions, automotive demand, and environmental regulations, pushing innovation in eco-friendly processing and coatings for sustainability.

### January 2025

The Linux Foundation declared the launch of a new project called "Supporters of Chromium-Based Browsers." The program's objectives are to improve cooperative development and obtain long-term support for initiatives in the chromium ecosystem. The project will serve as an impartial forum for joint initiatives from developers, academic institutions, industry leaders, and the larger open-source community.

### November 2024

The major Chrome Mining Complex, which includes the Chrome Mine and mining, processing, and infrastructure assets from the Volclay Group of Companies in South Africa, was acquired by Vishnu Chemicals Limited (Vishnu), a leading global player in the manufacturing of specialty chemicals, through its wholly owned subsidiary Vishnu South Africa (Pty) Limited (Vishnu SA) in a combination of share and asset deal.

### September 2024

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Chromium Xo, a new addition to its fleet of Chromium single cell instruments, was launched by 10x Genomics, Inc., a leader in single cell and spatial biology. Chromium Xo provides an inexpensive entry point into routine, high-performance single cell analysis, catering to the needs of researchers who want high-quality data on a tight budget.

August 2024

The specialty chemicals company LANXESS declared that it would not be selling the Krefeld-Uerdingen facility and would instead continue to produce chromium oxide pigments there. Energy-intensive industries including ceramics, fireproof material manufacturing, and color applications all use these chromium oxides.

#### New Technologies in Chromium Ore Processing

The chromium market in India is undergoing tremendous technological development in terms of processing methods. For example, chromium detection in environmental monitoring using ion enrichment chip-laser-induced breakdown spectroscopy (IEC-LIBS) chromium, which is a nonmetal, whose redox states vary widely and change the properties of chromium. The method uses laser induced breaking spectroscopy with an ion enrichment chip to identify chromium oxide states in soil and water at a very fast and sensitive ratio. IEC-LIBS is simple and environmentally friendly, with potential for practical applications in the field, and it could help improve compliance with environmental quality standards.

#### Rise of Export Restriction Rules

The Indian government-imposed restrictions on the export of chromium ores and concentrates to ensure that sufficient supplies are available to industries such as stainless steel, have changed the India chromium market dynamics. Exporters now must receive licenses from the Directorate General of Foreign Trade (DGFT) for shipments of chromium. The premise of these regulations is to secure enough domestic availability of chromium for strategic industrial needs.

#### Increasing Applications in Automobile Manufacturing

In India, the automotive sector is a major contributor to the demand for chromium, especially in the decorative coatings domain. Chromium-based decorative coatings are used for their visually pleasing properties, corrosion resistance, and longevity. Both OEMs and aftermarket service providers use chromium products for trim pieces, grilles, door handles, wheels, and emblems in passenger and commercial vehicles. Wheel finishes with chromium plated parts are among the most popular trends in the automotive sector, with most leading automotive producers investing in the improvement of chromium coatings to improve the relevant aesthetics of car parts.

#### Increased Environmental Regulations

As awareness about the environmental impact increases, regulations governing chromium, particularly in plating processes, have become increasingly prevalent. Hexavalent chromium (Cr<sup>6+</sup>) phase-out efforts are driving this India chromium market trend, leading automakers to use trivalent chromium (Cr<sup>3+</sup>) and chrome-free materials. The automotive industry is seeking sustainable ways to make decorative chromium coatings that are eco-friendly, with companies such as MacDermid Enthone and Atotech developing these kinds of solutions. These revolutions address the sustainability demands of the industry without diminishing performance and aesthetic standards.

#### India Chromium Market Opportunities

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Growth in chromium recovery and chromium recycling is one such area that has significant market potential, with increasing demand for sustainable practices in the industry. Companies can tap into this emerging trend in India chromium market. Further, advanced recycling plants cater to the growing chrome demand without mining, and to reduce costs and the environmental impact of extracting and treating ores. The growing trend towards sustainability indicates that companies that focus on recycling will be able to attract environmentally aware customers and meet trending regulations while being leaders in sustainable chromium production. In addition, India's large aerospace and defense sectors provide chromium companies with a potential market. Chromium's essential use in high grandeur alloys for these industries drives further potential for development while there is a rising demand for these magnified fields of specialized materials.

#### India Chromium Market Trends

Chromium is used in various construction materials, and this demand is being driven by India's infrastructure projects spanning roads, bridges, and urban development. Chromium is used in the production of cement and steel to improve both strength and corrosion resistance, making it vital to large-scale infrastructure projects. With the government investing in infrastructure, it is expected that the demand will increase, in turn benefiting the producers and suppliers in the India chromium market. Moreover, climate change initiatives, rapid industrialization and urbanization in India are driving a growing demand for stainless steel, alloys and other chromium-based materials. As more manufacturing facilities and urban housing projects get developed, the demand for corrosion-resistant, high-quality materials is increasing. Chromium is primarily used in the construction, automobile, and industrial sectors, thus fueling the trend.

#### India Chromium Market Restraints

Rigorous changes in environmental laws related to chromium processing and mining, particularly the treatment of hexavalent chromium, may result in higher operational expenditures and reducing production capacities of Indian firms. This is a major factor challenging the India chromium market growth.

Geopolitical tensions and disruptions in supply chain have resulted in worldwide volatility of chromium prices and hence, can cause variations in profitability among producers in India.

#### India Chromium Industry Segmentation

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

##### Market Breakup by Application

- Metallurgy
- Chemicals
- Refractory

##### Market Breakup by Region

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

#### India Chromium Market Share

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## Market Insights by Application

Mounting end-user industries, including construction and automotive, among others has been propelling the demand for chromium in India; which is likely to catalyze the demand for metallurgy chromium in India, further. The chemical applications have particularly boosted further demand in the India chromium market, as chromium compounds are necessary for pigments, catalysts, and chemical production. This particular segment is expected to grow at a CAGR of 6.7% over the forecast period. Chromium's use in refractory products for high-temperature uses, such as in kilns and furnaces, is another factor driving the growth of the refractory segment. These are essential to steel production and various other industrial processes. Collectively, these applications are pushing the market growth, driven by Indian industrial growth & infrastructure development.

## India Chromium Market Regional Analysis

### North India Chromium Market Opportunities

The demand for chromium in North India is increasing mainly due to its boom in automotive, construction and infrastructure sectors. This market held a 21.2% of the overall market share. Major industrial centers such as Delhi, Haryana and Punjab are fueling demand for stainless steel and chromium-based alloys. A further driver of the market is the increasing chromium consumption in metallurgy and chemicals, due to the industrial base of the region.

### East India Chromium Market Outlook

Being an essential component of steel and mining, the chromium demand in East India is growing with Odisha, Jharkhand and West Bengal being the largest drivers. The region has significant chromium deposits, and growing demand to feed metallurgical processes and refractory materials to fuel the boom in steel plants and infrastructure projects.

## CAGR 2025-2034 - Market by

### Region

#### South India

6.4%

#### West India

6.0%

#### North India

XX%

#### East India

XX%

## West India Chromium Market Growth

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The demand from the metallurgy, chemicals and construction sectors in Maharashtra, Gujarat and Madhya Pradesh make for a strong West India chromium market. The presence of large steel producers, chemical industries and refineries in this region drives the chromium consumption. The continued industrialization and urbanization in the region has enabled it to increase the market share.

### South India Chromium Market Insights

Specifically, South India constitutes an impactful conglomerate shaping the overall India chromium market value, encompassing states like Tamil Nadu, Karnataka and Andhra Pradesh. The demand in the market is anticipated to register a CAGR of 6.4% during the forecast period. Chromium demand is fueled by well-established operations in the automotive, aerospace and steel manufacturing sectors in the region. In South India, the growth of the electronics and renewable energy sectors is also fueling consumption.

### Competitive Landscape

Major India chromium market players are working on production capacity expansion and sustainable development initiatives through several merge and acquisitions. Majority of the India chromium companies seek to leverage increasing demand from end-use sectors such as automotive, construction, and electronics, along with advancements in chromium recycling processes.

### Odisha Mining Corporation (OMC)

OMC was incorporated in 1956, and it is based at Bhubaneswar, Odisha. It is a major state-owned company in chromium, among other mineral extraction operations, fulfilling global chromium demand through mining in Odisha.

### The Group Shyamji

Nagpur-headquartered The Group Shyamji is a manufacturer of ferroalloys, chromium among them. A dominant player in mining and metallurgical sectors, the company aims at supplying high-quality chromium commodities to fertilize industrial demand, especially for steel.

### Tata Steel Mining Ltd.

Founded in 1907, Tata Steel subsidiary is based in Jamshedpur. A leading player in chromium mining and its business model consists of efficient production processes and sustainable practices, supplying chromium to industries such as steel and alloys.

### Indian Metals & Ferroalloys Ltd. (IMFA)

IMFA is a major producer of ferroalloys, including chromium, and was founded in 1961 and is headquartered in Bhubaneswar. The company owns and operates one of the largest chromite mines in Odisha, with the global chromium market valuing it at 19 billion dollars.

### Startup Scenario in the India Chromium Market

New players in the market are developing green chromium extraction and recycling technology. They are designing to improve the efficiency of chromium processing and reduce the environmental impact, as well as to explore alternative applications, such as environmentally friendly coatings and high-performance alloys, to meet the rising needs of different sectors.

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Otto Chemie Pvt. Ltd.

Otto Chemie Pvt Ltd, India-based company founded in 2006 is a new chromium metal and its derivatives producer. The company is committed to supplying the electronics, chemicals, metallurgy and other sectors with chromium products that are not only of the highest quality, but also supply-grade, eco-friendly and produced in a way that's not harmful to the environment.

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