

## **India Nano Silver Market Report and Forecast 2025-2034**

Market Report | 2025-06-29 | 117 pages | EMR Inc.

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### **Report description:**

The India nano silver market size reached approximately USD 108.23 Million in 2024. The market is projected to grow at a CAGR of 18.00% between 2025 and 2034, reaching a value of around USD 566.46 Million by 2034.

### Key Trends in the Market

Nano silver refers to silver particles that are extremely small in size, typically in the nanometre range, which is one billionth of a meter. Silver has long been known for its antimicrobial properties, meaning it can inhibit the growth of bacteria, fungi, and other microorganisms. In the case of nanosilver, the high surface area to volume ratio, which is the result of the particle's small size, enhances its antimicrobial effectiveness while lending it other beneficial properties.

- The increasing medical applications of silver nanoparticles owing to their antimicrobial and anticancer properties support the India nano silver market demand. The unique physicochemical properties of nano silver makes it one of the most attractive nanomaterials in biomedicine. The small size of these particles allows them to interact more effectively with microbial organisms, making them a valuable material in applications, including wound repair, dental material filling, and bioimaging.
- Nano silver is being studied for its potential use in solar cells, sensors, and catalysts. As India continues to invest in clean energy initiatives, the demand for nano silver in these applications may see growth, contributing to both environmental sustainability and technological advancement. The rising emphasis on renewable energy and sustainable technologies is thus expected to propel the India nano silver market growth in the coming years.
- Owing to the excellent conductivity and stability of nano silver, it is extensively used in conductive inks and paint for printed electronics, touchscreens, and flexible electronics. The increasing demand for innovative electronic products is one of the major India nano silver market trends, expected to impact the market growth trajectory.

### Market Segmentation

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

#### Market Breakup by Method of Synthesis

- Physical
- Biological
- Chemical Reduction

#### Market Breakup by End Use

- Electronics
- Pharmaceutical
- Food and Beverages
- Personal Care and Cosmetics
- Water Treatment
- Others

#### Market Breakup by Region

- North India
- East and Central India
- West India
- South India

#### Market Share by Method of Synthesis

The chemical reduction method for synthesising nano silver involves a chemical reaction that reduces silver ions into silver nanoparticles. Typically, a silver salt, like silver nitrate, is dissolved in a solvent, and a reducing agent is added.

According to the India nano silver market analysis, the chemical reduction method is likely to find extensive application owing to the simple procedure and high yield of nanoparticles. Additionally, this method offers versatility in tailoring the properties of nano silver for various applications by modifying the reaction conditions or using different stabilising agents.

#### Market Share by End-Use

The increasing application of nano silver in water treatment due to its effective antimicrobial properties is expected to substantially enhance the India nano silver market share in the coming years. Nanosilver, once added to water, works effectively against various microorganisms such as bacteria, viruses, and fungi. This facilitates the purification of water, making it safer for drinking or other purposes.

Moreover, nano silver treatment does not alter the taste, colour, or odour of water, making it more appealing for consumption. It also has a long-lasting effect compared to some conventional disinfection methods, helping maintain water quality over extended periods.

#### Competitive Landscape

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The comprehensive EMR report provides an in-depth assessment of the market based on 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 nano silver market, covering their competitive landscape and the latest developments like mergers, acquisitions, investments, and expansion plans.

#### Merelex Corporation (American Elements)

Merelex Corporation (American Elements) stands as a leading player in the field of materials science and chemical engineering. Renowned for its expertise in manufacturing and supplying advanced materials, the corporation specialises in producing and distributing a wide array of high-purity materials, including metals, alloys, and compounds, among others.

#### Nanoshel LLC

Nanoshel LLC is a nanotechnology company, specialising in the production and distribution of high-quality nanomaterials. The company has developed a wide range of products including single-wall carbon nanotubes, multi-wall carbon nanotubes, COOH-functionalised carbon nanotubes and OH-functionalised carbon nanotubes.

#### Ultrananotech Private Limited

Ultrananotech Private Limited is one of the leading companies in the nanotechnology field, based in India. It specialises in the design, production, and distribution of high-quality nanomaterials. With a strong focus on cutting-edge research and development, the company offers innovative nano-based solutions catering to diverse industries such as healthcare, electronics, energy, and materials science.

Other key players in the India nano silver market are Otto chemie Pvt. Ltd., Filo Lifesciences Pvt. Ltd., Nano Labs, Saveer Matrix Nano Pvt. Ltd., Indian Platinum Pvt. Ltd., and Nano Research Elements, among others.

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