

# **Market Research Reports, Industry Reports on Worldwide Markets**

**[India Beer Market- Industry Size, Share, Drivers, Trends, Analysis  
and Forecasts \(2023-30\)](#)**

**Author:** NPCS Team

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The India Beer Market is Likely to be Fueled by Rise in Population in Urban and Rural Areas, Growing Demand for Premium Beer over Standard Beer and Easy Availability of Products and the Increasing Purchasing Power of Consumers. The India beer market size stood at a value of INR 352.66 Billion in 2022 and is projected to reach INR 707.51 Billion by 2030, exhibiting a growth rate (CAGR) of 8.64% during 2023-2030. The Indian beer consumption is expected to reach 595.79 million cases by 2030, with a CAGR of 6.96% during the forecast period 2023-30. Additionally, Indian beer consumption is expected to reach 33.45 million hectolitres from 23.33 million hectoliters, growing with a CAGR of 4.65% during the forecast period, 2023-2030. Increasing brand consciousness regarding imported and premium beers is a key driver of growth in the Indian beer market. Factors such as cultural change, change in lifestyle and penetration of Western culture have also influenced the consumer's behavior and inclination toward alcoholic beverages. In addition, the surge in female drinkers and the growing young age population every year by around 20 million fuel the growth of the beer market in India. Moreover, beer consumption in India was at 350.15 million cases in 2022 and is expected to reach 595.80 million cases by 2030, thus registering a CAGR of 6.96% during the forecast period 2023-30. Favorable demographics in India, coupled with consumers are increasingly interested in trying new and unique beers and are willing to pay a premium for high-quality, well-known brands and easier for consumers to access a wider variety of beer, which are expected to enable beer demand to grow swiftly in years to come. Around 56 units are manufacturing beer under license from the government of India. Additionally, the expansion of organized retail chains and modern trade outlets is strengthening the market. In line with this, the inflating disposable incomes of consumers and changing lifestyles are significantly contributing to the market. The Indian beer market has been experiencing the trend of microbreweries and some exclusive beer outlets. Another feather in the hat is the rising awareness of health benefits arising from beer consumption. Shifting consumer's preferences toward healthy lifestyles is reducing excessive consumption of alcohol. The recent self-grooming trend has influenced the younger population to adopt healthier

beverages with low alcohol content, like craft beer, backed by the influence of digital media. Indian beer exports stood at USD 43.8 million in 2017 and reached USD 27.8 million in 2020. India imports value and volume is very low. Indian imports of beer stood at USD 11.7 million in 2017 and reached at USD 5.9 million in 2020. In 2020, global beer production reached 1788.93 million hectoliters while in 2021, 1859.73 million hectoliters and an increase of about 70.8 million hectoliters with 3.96% changes. The five leading beer-producing nations were China, USA, Brazil, Mexico and Germany, which continued to produce 50 percent of the world's beer. In Asia, beer production was driven by China (+16.5 million hl). Europe beer production was contributed by UK (+6.2 million hl), Spain (+3.3 million hl) and Russia (+2.6 million hl). In the Americas, Brazil (+10.2 million hl) and Mexico (+7.8 million hl) were once again growth markets. Africa Beer production increased by 10 million hl. South Africa and Angola achieved the largest increases in output by 5 million hl and 2 million hl, respectively.

**Alcohol by Volume Overview in the India Beer Market Based on Alcohol by Volume (ABV),** India Beer market is segmented into strong beer and mild beer. In India, beer market is dominated by strong beer which accounts for ~80% of the beer sales. In strong beer, alcohol content of >5% and most of a strong beer's alcohol percentage lies between 6-20%.

**India Beer Market: Competitive Landscape** The majority of the beer market seems to be captured by 2-3 main players, rest of the players struggle with tiny shares in the industry. Companies leading the India beer market includes United Beverages Limited with market share of 52.3%, AB Inbev India Private limited with market share of 21.6%, and Carlsberg India Private Limited with market share of 17.1%. The others companies hold 9% market share which includes Mohan Meakin Limited, Molson Coors India Private Limited, Cerana beverages private limited etc., further the industry also comprises of several small and medium-scale manufacturers, generating substantial revenue and contributes towards industry value chain.

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technical consultancy providing focused services and we have been following stringent system and procedure to ensure only top quality strictly in conformity with delivering the needs of our clients in this rapidly growing & changing market. We have a full fledge of highly qualified Technical Consultants, Engineers, Economist and Technologists specialized in various disciplines and we take great pride in working as a team, and share the common goal of exceeding excellence. Our team is behind the success of many clients in their investment. Over the years, NPCS has become a well-known name in the industrial world for delivering a wealth of technical services and solutions to clients, both large and small. We provide the services through comprehensive knowledge of equipment and practices through our excellent team at a very economical price.

# Market Research Report on Cold Chain Logistics in India (Cold Storage & Reefers) Present Scenario, Future Prospects, Market Potential, Opportunities, Growth Drivers, Industry Size, Analysis & Forecasts UPTO 2023

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Market Research Report on Cold Chain Logistics in India (Cold Storage & Reefers) Present Scenario, Future Prospects, Market Potential, Opportunities, Growth Drivers, Industry Size, Analysis & Forecasts UPTO 2023 The market research report titled “COLD CHAIN LOGISTICS IN INDIA (COLD STORAGE & REEFERS) Present Scenario, Future Prospects, Market Potential, Opportunities, Growth Drivers, Industry Size, Analysis & Forecasts” released by Niir Project Consultancy Services, provides a comprehensive analysis of Indian cold chain industry. The report begins by giving an overview of the industry by defining the composition & further moves to analyse the Indian scenario by citing information like structure and classification of the sector. In India, cold chain sector is termed as the sunrise sector gauging its indispensability in an industry's growth and the investment potential present in the sector. This report aims at equipping you with the imperative knowledge of the industry and its potential in India. The report analyses the cold chain sector in profundity by covering data points like industry growth drivers, demand supply potential coupled with SWOT analysis of the market and the regulatory framework. The report scrutinizes the potential of the sector by way of measuring its growth drivers. The major driving force behind the growth of cold chain facilities in India will be the growth in end user industries. As mentioned above, cold chain has a host of industries as users and any palpable growth in these industries will necessitate the development of cold chain industry in India. Today Indian pharmaceutical industry is growing leaps and bounds and is carving a niche for itself in the global pharma terrain. The demand for pharma cold chain logistics is bound to increase in the next few years backed by growing healthcare penetration in the country and newer innovations in the pharma industry that necessitate the need for efficient cold chain logistics in pharmaceutical industry. Similarly, Indian dairy industry is one of the biggest user industries for cold chain logistics in India. Dairy industry in India presents a vast opportunity for cold chain industry to tap as the need for high quality milk & milk products rise in India. An efficient supply chain management will not only improve the quality & shelf life of milk but will play a major role in reducing the wastage in the sector. The food service sector is among the fastest growing sectors in India and Quick Service

Restaurants (QSR) industry holds the largest share in the Food Service Industry and has been a critical segment in the cold chain sector of the country. QSR joints in India are spreading their wings and flying high. Penetration of such restaurant chains has gone deeper than metro cities and expanded to Tier II & Tier III cities as well. Such changes have led to a massive spurt in the food service industry, consequent to which the cold chain requirements by the industry have also augmented. Growth in the organized retail industry remains as a key driver for cold chain sector in India. Food retailing has come of age and the growing penetration of organized food retail in the nation has dictated the development of efficient cold chain supply management. Other factors acting as catalysts for the cold chain sector includes rising emphasis on reducing food wastage in the country and government initiatives liked FDI relaxation for the sector. Cold chain sector in India has been receiving much desired government aid in promoting & encouraging cold chain infrastructure in the nation. The report further scrutinizes the industry with the help of SWOT Analysis. Growing Indian population, favourable demographics and large agricultural production are some of the strengths of the industry. Indian population has been growing at a steady rate which ensures stable indirect demand for cold chains in India. With rising population, comes an irrefutable need for efficient supply chain management in order to bridge the gap between producer and consumer and for uniform distribution of food among the populace. Also, India occupies a position amongst the top three in production of a host of commodities including spices, fisheries, poultry, milk, fruits and vegetables. Such high agricultural produce puts the cold chain industry in a sweet spot by providing a steady demand for its services. Some of the key challenges for the sector includes uneven distribution of cold chain supply, high capital needs, inadequate infrastructure and lack of skilled manpower in the sector. Rising disposable incomes coupled with growing affluent population and urbanization are some of the macro opportunities for the sector. Processed food is increasingly finding takers from all the segments of society which brings effective cold chain logistic into picture. For any processed food to reach the end consumer in the freshest of its form requires an effective cold chain system. The report further expounds the domestic demand/supply situation of the industry along with the projections and present scenario. Demand for the cold chain sector is gauged by the growth in numbers for the user industry demand and supply is measured in terms of total number and capacity of cold storage in the country along with cold chain projects cleared

under various government schemes. The report further provides financial information and analysis of the key players in the segment. The report wraps up the analysis with a positive outlook for the cold chain industry in India. Shifting focus from increased production to efficient storage and transportation of commodities to reduce wastage is one of the factors pushing the cold chain sector ahead. Other factors aiding the growth of the sector include evolving consumer preferences and culture, rising disposable incomes & middle class coupled with favourable government policies and complementing growth of the user industries like organized retail, food processing and pharmaceutical industry. Indian cold chain industry is poised for significant growth in coming years. The market size of the industry stood at INR 1288 billion in 2019 and is expected to reach new levels by 2023.

**Reasons for Buying this Report:**

- This research report helps you get a detail picture of the industry by providing overview of the industry along with the market structure and classification
- The report provides market analysis covering major growth driving factors for the industry, latest market trends and insights on regulatory framework in the industry
- This report helps to understand the present status of the industry by elucidating a comprehensive SWOT analysis and scrutiny of the demand supply situation
- Report provides analysis and in-depth financial comparison of major competitors
- The report provides forecasts of key parameters which helps to anticipate the industry performance

**Our Approach:**

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players
- We use reliable sources of information and databases, information from which is processed by us and included in the report

**Key Words:**

Indian cold chain industry, cold storage, cold chain logistics, cold storage, reefers, temperature controlled storage, temperature controlled transportation, dairy industry, food retail, organized retail, vaccines, pharmaceutical industry, food wastage, FDI, processed food, agricultural produce, milk production, meat production, fruit & vegetable production, horticulture production, supply chain management, cold storage capacity, gati kausar, snowman logistics, Dev bhumi cold chain, Fresh & healthy enterprises

**Market Research Reports, India and Global Industry Analysis ,Market Trends, Market Insight, Market structure, Market outlook Indian Industry Size, Share, Trends, Analysis and Forecasts report, sector Growth Driver, company profiles, key financials, ratios, urbanization, disposable incomes, affluent class, growing**



middle class, population,

**Market Research Report on India Lithium-Ion Battery Market, Growth Rate, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027**

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Market Research Report on India Lithium-Ion Battery Market, Growth Rate, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027 Market By Type (Lithium Cobalt Oxide, Lithium Manganese Oxide, Lithium Iron Phosphate, and Others), By Components (Cathode, Anode, Electrolytic Solution, and Others), By Application (Consumer Electronics, Industrial, and Automotive), and By Region (North India, South India, West India, and East India) The report titled India Lithium-Ion Battery Market, Growth Rate, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027 released by Niir Project Consultancy Services, provides a comprehensive analysis on Indian Lithium Ion Battery Market. The report begins with a brief insight into the scenario of the India Lithium Ion Battery industry giving details about market size, market segmentation, competitive landscape and regional information. The report analyzes the lithium Ion Battery market in profundity by covering data points like industry growth drivers, limitations, opportunity emerging trends coupled with technological landscape of the market and the regulatory framework surrounding the market. The India Lithium Ion Battery market is expected to drive due to technological advancement coupled with the surge in acceptance of EV across the region The India Lithium-Ion Battery market projected to reach USD 7 billion at a significant CAGR of over 28% during the forecasted period of 2020-2027 due to the rise in the adoption of electric vehicles across the region. Additionally, the fueling demand for smart devices, coupled with the other consumer products, is one of the primary factors that is projected to drive the Indian lithium-ion batteries market at a significant growth rate. In addition, the strong need for lithium-ion batteries for automotive purposes is anticipated to drive the market. Furthermore, the stringent government controls relevant to CO2 pollution is pushing the lithium-ion battery sector. Moreover, the growing need for eco-friendly energy storage solutions further expected to propel the market for these energy storage solutions. In addition, the declining price of lithium-ion batteries is estimated to provide opportunities for market growth. Type Overview in the India Lithium Ion Battery Market Based on the Type, the

India Lithium Ion Battery market segregated into by Lithium Cobalt Oxide, Lithium Manganese Oxide, Lithium Iron Phosphate, and Others. The Lithium Cobalt Oxide segment is estimated to have a significant growth rate during the forecasted period of 2020-2027 across the region owing to its extensive uses, including in telecommunications, laptops, video cameras, and wearables. In addition, the primary purpose of the Lithium Iron Phosphate battery is in electric vehicle power batteries. However, the Lithium Cobalt Oxide type segment is projected to have a lucrative growth rate over the forecasted period by 2027 due to the high energy density of Lithium Cobalt Oxide batteries.

**Component Technology Segmental Analysis** Based on the component technology, the Indian Lithium Ion Battery market segregated into Cathode, Anode, Electrolytic Solution, and Others. The cathode component segment is estimated to hold the largest share during the forecasted period of 2020-2027 across the region as the cathode commonly used in lithium-ion battery production. The cathode often used for the development of positive electrodes for the battery cells. Additionally, cathodes have high density and superior power output for lithium-ion batteries, which is predicted to boost the Indian market substantially. However, the Electrolytic Solution segment is predicted to have a considerable growth rate over the forecasted period by 2027. This is due to the secure, and long-lasting battery needs a durable electrolyte, which can endure current-voltage and elevated temperatures. The electrolyte has a long shelf life, thus providing high lithium-ion durability, which is projected to fuel the Indian market.

**Application Segmental Analysis** Based on the application, the Indian Lithium Ion Battery market segregated into Consumer Electronics, Industrial, and Automotive. The automotive application is expected to be the fastest growing in the Indian lithium-ion battery market due to its fast recharge capability, and high energy density as lithium-ion batteries are the only viable technologies that are capable of fulfilling OEM specifications for automotive drive range and charging time. In addition, the growing acceptance and recognition of EVs, legislation promoting the use of EVs, and government initiatives, around the nation are the factors expected to drive the development of the lithium-ion battery industry at a substantial growth rate.

**Regional Overview in the India Lithium Ion Battery Market** By geography, the India Lithium Ion Battery market segmented into North India, South India, West India, and East India. South region is projected to lead the market by 2027, owing to the region's propelling consumer electronics industry.

**India Lithium Ion Battery Market: Competitive Landscape** Companies such as Exide Industries, Mahindra & Mahindra Limited, ACME Cleantech Solutions Private Limited,

Reliance Industries Limited, NEC India Private Limited, Adani Enterprise Ltd, JSW Group, Denso Corp., Samsung SDI Co. Ltd., Rajamane Telectric Pvt. Ltd, Suzuki Motor Corp., Bharat Heavy Electricals Ltd., and other prominent players are the key players in the India Lithium Ion Battery market.

**India Active Pharmaceutical Ingredient (API) Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Forecast upto 2027**

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India Active Pharmaceutical Ingredient (API) Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2027 Market By Manufacturing Process (Captive Manufacturing, Contract Manufacturing), By Type of Synthesis (Synthetic, Biotech), By API Formulation (Generic API, Innovative API), By Application (Cardiovascular Disease & Hematopoietic System, Central Nervous System, Anti-infectives, Respiratory, Gastrointestinal Disorders, Urology, and Others and By Region (North India, South India, West India, and East India) The India API market is expected to drive owing to the R&D activities and surge in the incidence of chronic disease The India API market projected to reach USD 27.49 billion at a significant CAGR of over 10.23% during the forecasted period of 2020-2027. Due to the rising upgradation of technology across India and the growing incidence of hereditary cardiac disease, it is further projected to accelerate the API market at a significant rate across the country. Furthermore, the propelling focus on precision medicine is predicted to accelerate the India active pharmaceutical ingredient market. Moreover, the use of drug development techniques focused on Artificial Intelligence further expected to boost the market. Additionally, strategic outsourcing enables enterprises to rely on their core competencies, contributing to improved efficiency, which is anticipated to fuel India's API market. Furthermore, the rising demand for biosimilars across India is predicted to drive the market at a considerable rate. However, the lack of skilled labor is predicted to challenge the growth of the market. Additionally, the increasing penetration of counterfeit drugs further projected to hinder the Indian market's growth substantially.

**Manufacturing Process Overview in the India API Market** Based on the manufacturing process, the India API market segregated into Captive Manufacturing and Contract Manufacturing. The Captive Manufacturing segment is predicted to hold the largest share during the forecasted period of 2020-2027 across the country. It is attributed to the proper manufacturing and strong capitalization of raw materials, which is estimated to boost the India API market significantly. In addition, manufacturing technologies favor in-house production of innovative products to take advantage of the economic opportunities and avoid the proliferation of technologies, which is further predicted to accelerate the market.

**Type of Synthesis Overview in the India API Market** Based on the type of synthesis, the India API market is segregated into Synthetic and Biotech. The biotech segment is

estimated to have the fastest growth rate during the forecasted period of 2020-2027 owing to the propelling technological advancement in the manufacturing process. Additionally, the increasing demand for the therapeutic and diagnostic solution on Red Biotechnology concepts, recombinant, and DNA sequencing technology is anticipated to boost the market.

**API Formulation Overview in the India API Market** Based on the API Formulation, the India API market is categorized into Generic API and Innovative API. The Generic API segment is predicted to hold the largest share over the forecasted period of 2020-2027 across the country. It is attributed to the patent expiry of labeled molecules, which is expected to drive the market at a considerable growth rate. In addition, the decreased in the cost of the generic drug is further projected to fuel the India API market. However, the Innovative API segment is estimated to have a significant growth rate during the forecasted period by 2027 due to the presence of favorable government regulations in the research and development of drugs.

**Application Overview in the India API Market** Based on the Application, the India API market is classified into Anti-infectives, Cardiovascular and Hematopoietic System, Central nervous system, Respiratory, Gastrointestinal Disorders, Urology, and Others. The Cardiovascular and Hematopoietic System segment is expected to hold significant market share in API market over the forecasted period of 2020-2027 across the country due to the increasing prevalence of cardiovascular diseases coupled with the incidence surge of obesity. In addition, the variation in lifestyle has increased the incidence of obesity is further predicted to drive the segment's market. However, the Central nervous system segment is expected to have a considerable growth rate during the forecasted period by 2027 across the country. It is due to the increasing emphasis on early diagnosis & treatment, which is predicted to fuel the market. Additionally, the growing prevalence of neurological diseases and rising funding for neurological diagnostics is estimated to improve the market significantly.

**Regional Overview in the India API Market** By geography, the India API market segmented into North India, South India, West India, and East India. The West India region is projected to hold the largest share during the forecasted period of 2020-2027 owing to technological advancement. In addition, rapidly evolving healthcare facilities and growing healthcare budgets are further anticipated to propel the India API market. Furthermore, the availability of affordable labor across the region is expected to accelerate the region's market.

**India API Market: Competitive Landscape** Companies such as Dr. Reddy's Laboratories Ltd., Aurobindo Pharma Limited, Cipla Limited, Sun Pharmaceutical Industries Limited, GlaxoSmithKline Pharmaceuticals Ltd, Indoco Remedies Ltd., Piramal Enterprises Ltd., Teva Pharmaceutical & Chemical Industries India Pvt. Ltd., Sri Krishna Pharmaceuticals Limited, Pan Drugs Limited, and Other Prominent Players are the key players in the India API market.

About Us: NIIR PROJECT



CONSULTANCY SERVICES (NPCS), an ISO 9001:2015 company is one of the leading reliable names in industrial world for providing one of the most comprehensive suites of technical consulting services. We at NPCS are dedicated with passion and enthusiasm for helping young entrepreneurs is a real encouragement to proceed with a business start-up right from providing basic information to technology evaluation, sourcing and assimilation of detailed project reports, market survey studies and research through our advanced Industrial, Business and Commercial Databases. NPCS is a well-known technical consultancy providing focused services and we have been following stringent system and procedure to ensure only top quality strictly in conformity with delivering the needs of our clients in this rapidly growing & changing market. We have a full fledged of highly qualified Technical Consultants, Engineers, Economist and Technologists specialized in various disciplines and we take great pride in working as a team, and share the common goal of exceeding excellence. Our team is behind the success of many clients in their investment. Over the years, NPCS has become a well-known name in the industrial world for delivering a wealth of technical services and solutions to clients, both large and small. We provide the services through comprehensive knowledge of equipment and practices through our excellent team at a very economical price. Tags  
#MarketResearchReports #MarketResearch #IndustryTrends  
#IndustryDemands #ActivePharmaceuticalIngredient #API  
#pharmaceutical #pharmaceuticalindustry #NPCS  
#projectconsultancy #businessconsultancy #apimarket  
#chemicalapimarket #biotechapimarket #highpotencyapi  
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# **India Natural Food Colour Market - Industry Size, Share, Trends, Analysis and Forecasts upto 2027**

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India Natural Food Colour Market - Industry Size, Share, Trends, Analysis and Forecasts upto 2027 India Natural Food Market, By Form (Liquid and Powder), By Color (Green, Red, Orange, Blue Yellow, and Others), By Application (Bakery & confectionary, Beverages, Dairy, Process Food & Vegetables, and Others) and By Region (North India, South India, West India, and East India)-Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis. India Natural Food Market Overview: Natural food colors come from various materials, including herbs, seeds, plants, minerals, and other natural sources that are edible. When introduced to food or water, they impart color. Items derived from food and other edible raw source materials obtained by physical and chemical extraction resulting in the selective extraction of pigments with the nutritional or aromatic elements are natural food colors. They are available in various ways, including oils, powders, gels, and pastes. Food coloring is used both in the processing of commercial foods and in domestic cooking. India Natural Food Market Insights India's natural food color market is projected to have a USD 74.09 million market size in 2019. It is expected to reach USD 92.96 million by 2027, growing at a CAGR of 3.90% 2020-2027 across the region. It is attributed to the rising population coupled with the mounting awareness among the consumers towards health, which is predicted to boost the market. Individuals are becoming conscious of synthetic food colors' adverse health effects, which led to driving the demand for natural food colors. Artificial food colors make food appear more enticing. The interest of consumers, especially children, is attracted by brightly colored foods. The risk of attention-deficit/ hyperactivity disorder is with children fed processed food-flavored eatables. In children who eat larger concentrations of artificial food colors, these behavioral alterations are more familiar. However, the cost of natural food colors is high compared to synthetic food colors is predicted to hinder the market's growth over the forecasted period by 2027. Growth Driver Mounting Concerns Regarding the Adverse Impact of Synthetic Colors The rising concerns towards the adverse impact of synthetic colors are projected to boost the Indian natural food colors market over the

forecasted period of 2020-2027 at a significant rate. As companies continue to lure customers with enticing food coloring, food coloring continues to be in demand in the industry. As consumers continue to focus their judgment on food coloring, food coloring plays a critical role in the F&B industry. While synthetic colors continue to be in use, the correlation of multiple health issues with the intake of synthetic food coloring has arisen, leading to the quality of the additives challenged by consumers, which is expected to drive the Indian market. Furthermore, synthetic colors (Blue 1, Blue 2, Green 3, Red 40, Yellow 5, and Yellow 6) have been reported by the Food and Drug Administration (FDA) to show signs of cancer in lab animals. It was discovered that artificial shades, including yellow 5, yellow 6, and red 40, produce carcinogens. In soft drinks, caffeine is commonly used as a colorant and can cause heart palpitations and heart defects. Thus, the rising concerns towards the adverse impact of synthetic colors are estimated to boost the Indian market at a considerable rate. Increasing consumer awareness for clean-label products The increasing consumer awareness of the clean label products is estimated to drive the market during the forecasted period of 2020-2027 at a considerable rate. Demand for food with a natural and clean label is growing across India due to increasing hygiene consciousness, increasing customer purchasing capacity, and rising food adulteration instances. In addition, the concerns regarding food safety caused by toxic food pollution and the harmful effects of industrial pesticides have led to a growing number of customers seeking clean label products, which is projected to boost the Indian natural food colors market. Furthermore, the country's population tends to focus on improving their health and well-being, driving the trend's growing success. A thorough increase in the number of government programs supporting health and well-being is projected to boost the demand for natural food colors. A rise in the global population's real disposable income is anticipated to improve organic products' appetite for using natural ingredients. COVID-19 Impacts Insights In the new COVID-19, consumer shopping patterns and preferences change; some producers see consumers increase demand for certain products, while other producers are due to overcapacity and had to sell the product. The pandemic has greatly stimulated the organic food market. The uncertainty of the epidemic will also affect everyone in the entire supply chain from the planting end to the retail end. During the global pandemic of the COVID-19, organic food sales have seen a substantial increase, with individual growth figures even exceeding 40%. In India, the online organic food retailer sales

in March increased by 30%. The market landscape of clean label ingredients sees a surge in investments on the launch of clean label products. The use of natural colors such as the extraction of brown colors from rice is surging the demand for clean label ingredients in the processed food industry. Similarly, manufacturers are extracting and using organic orange color from carrot and pumpkin extracts. Although the increasing demand is good news for organic food retailers, the pandemic has brought problems to the global supply chain. Natural Colored food is becoming more and more popular because it symbolizes naturalness and health, and consumers have higher and higher requirements for its variety and quality.

**Form Segmental Analysis Based on Form**, the India region is segmented into Liquid and Powder. The liquid segment is dominating the market during the forecasted period of 2020-2027 due to its growing demand for enhanced viscosity, mouthfeel, product consistency, texture, shelf life, good taste, and visual appearance during food and beverage processing, which is projected to accelerate the market at a significant rate. Additionally, liquid coloring produces the softest level of color as compared to the powder segment. The propelling acceptance with high microbial stability property is estimated to drive the market.

**Color Segmental Analysis Based on Color**, India natural food color market is segmented into Green, Red, Orange, Blue, Yellow, and Others. The Red color segment dominates the market during the forecasted period of 2020-2027 due to its use in numerous recipes compared to other colors. Fruits, vegetables, and spices have heavy coloring that makes them ideal for homemade food coloring. It is not as concentrated as most colors, so it uses more. It works best for dying icing and frosting. However, the green color segment is estimated to have the fastest growth rate during the forecasted period by 2027. This is attributed to the rising demand for green color appearance drinks and beverages such as Khus Sharbat / Green Spring Mocktail, Mung Bean Cake, etc.

**Application Segmental Analysis Based on the Application**, the India region is segmented into Bakery & confectionary, Beverages, Dairy, Process Food & Vegetables, and Others. The Beverages segment is projected to hold the largest share during the forecasted period of 2020-2027 across the country. This is attributed to the rising demand for juices, soft drinks, and alcoholic drinks, which are estimated to propel the natural food color market at a considerable rate. In addition, 1.25 billion people in the country consume 5.9 billion liters of soft drinks a year. It makes India's per capita consumption of soft drinks high, but only 1/20th of that of the US, 1/10th of Kuwait, one-eighth of Thailand and the Philippines, and one-third of

Malaysia, which is estimated to boost the market. Region Segmental Analysis Based on Geography, the India Natural Food Market segmented into North India, South India, West India, and East India. North India's natural food color market is projected to have the fastest growth rate over the forecasted period of 2020-2027 across the country. This is attributed to the rising food color usage in processed food, bakery & Confectionaries, and beverages industry, which is estimated to drive the market. Natural food colors are used to improve the color and taste of processed or cooked food. It contains zero toxic-level natural extracts that are environmentally friendly. Natural food colors enhance the quality of food. Competitor Analysis Companies such as Chr. Hansen Holding A / S, D.D. Williamson, Döhler, Kalsec Inc, Kancor, ADM, DowDuPont, Sensient Technologies, DDW, and other prominent players are the key players in the India Natural Food Market. Key Stakeholders if¼ Market research and consulting firms if¼ Industry associations if¼ India Natural Food manufacturing firm if¼ Research organizations and consulting companies if¼ Organizations, associations, and alliances related to Natural Food if¼ Regulatory bodies if¼ Suppliers if¼ Retailers About Us: NIIR PROJECT CONSULTANCY SERVICES (NPCS), an ISO 9001:2015 company is one of the leading reliable names in industrial world for providing one of the most comprehensive suites of technical consulting services. We at NPCS are dedicated with passion and enthusiasm for helping young entrepreneurs is a real encouragement to proceed with a business start-up right from providing basic information to technology evaluation, sourcing and assimilation of detailed project reports, market survey studies and research through our advanced Industrial, Business and Commercial Databases. NPCS is a well-known technical consultancy providing focused services and we have been following stringent system and procedure to ensure only top quality strictly in conformity with delivering the needs of our clients in this rapidly growing & changing market. We have a full fledge of highly qualified Technical Consultants, Engineers, Economist and Technologists specialized in various disciplines and we take great pride in working as a team, and share the common goal of exceeding excellence. Our team is behind the success of many clients in their investment. Over the years, NPCS has become a well-known name in the industrial world for delivering a wealth of technical services and solutions to clients, both large and small. We provide the services through comprehensive knowledge of equipment and practices through our excellent team at a very economical price.

# **India Vacuum Blood Collection Tube Market - Industry Size, Share, Trends, Analysis and Forecasts to 2027**

**Author:** Ajay Kumar Gupta

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The India Vacuum Blood Collection Tube Market is expected to drive owing to technological advancement coupled with R&D activities across the country. The vacuum blood collection tube market reached USD 71.09 million in 2019 and is likely to reach USD 160.87 million by the end of 2027 by registering a 10.82 % CAGR across India. It is attributed to the propelling incidence of infectious diseases, which is anticipated to boost the market. Contagious diseases have made the most significant contribution to any cause to hospital admissions. In recent years, emerging and re-emerging infectious diseases in developed countries, including India, are presenting a public health danger. Additionally, the need for blood tests to distinguish different diseases using blood specimens is essential. In order to collect and preserve blood for processing, a vacuum blood collecting tube is used. The advancement of the vacuum blood collection tube industry depends on the needs and alternatives required for blood storage. The demand for vacuum blood collecting tubes is being powered by government subsidiaries and healthcare, which are expected to drive the market. However, the lack of skilled personnel & risk associated with blood transfusion is predicted to create an obstacle in the market's growth. In addition, the low popularity of vacuum blood collection tubes across India is likely to hinder the market growth over the forecasted period of 2020-2027.

**Product Segmental Overview in the India Vacuum Blood Collection Tube Market** Based on Product, the market is segmented into Gel & Clot Activator Tube, Glucose Tubes, Heparin Tubes, EDTA Tubes, Serum Separating Tubes, and Others. The EDTA Tubes segment is dominating the market during the forecasted period of 2020-2027. EDTA stands for Ethylenediaminetetraacetic acid. By binding calcium into the blood and preventing the blood from clotting, EDTA works. As the anticoagulant of choice for hematological research, EDTA has been prescribed because it ensures the best protection of cellular components and blood cell morphology.

**Material Segmental Analysis Based on Material**, the market is segmented into Polypropylene, PET, and Tempered Glass. The Polypropylene segment is dominating the market during the forecasted period of 2020-2027. Polypropylene is inexpensive to purchase, even in larger quantities, which is likely to fuel the market at a considerable rate. Additionally, they have a relatively low level of friction when polypropylene tubes are positioned side by side, which means very low energy levels are created when the tubes are rubbed together. Polypropylene is



particularly resistant to moisture and certain acids and alkali corrosion, which is predicted to boost the market over the forecasted period. Application Segmental Analysis Based on Application, the market is segmented into Blood Routine Examination, Coagulation Testing, Biochemical Test, and Others. The Blood Routine Examination segment is dominating the market during the forecasted period of 2020-2027. It is due to the propelling prevalence of lifestyle diseases, which is estimated to boost the market. However, the Coagulation Testing segment is expected to have the fastest growth rate across India. End-User Segmental Analysis Based on End-User, the market is segmented into hospitals, Clinics, Pathology Laboratories, and Others. The Hospital segment is dominating the market during the forecasted period of 2020-2027. It is attributed to the rising prevalence of infectious diseases, and demand for blood processing equipment and instruments in medical facilities has been ensured by the increase in the number of emergency cases, as well as for C-sections and organ transplants. However, the Pathology Laboratories segment is likely to have a considerable growth rate over the forecasted period of 2020-2027. Regional Overview in the India Vacuum Blood Collection Tube Market By geography, the India Vacuum Blood Collection Tube Market segmented into North India, South India, West India, and East India. The North India vacuum blood collection tube market is predicted to grow significantly during the forecasted period of 2020-2027. It is attributed to the well-developed healthcare infrastructure across the region, which is estimated to propel the market. Additionally, the mounting number of blood donation activities coupled with the presence of leading market players across the region is likely to fuel the market. India Vacuum Blood Collection Tube Market: Competitive Landscape Companies such as Becton, Dickinson, and Company, Narang Medical Limited, CML Biotech, Terumo Corporation, Bio – X, Labtech Disposables, Sunphoria Ltd., Greiner Bio-One International, Biosigma, Hebei Xinle Sci &Tech Co. Ltd., Medtronic plc., and Other Prominent Players are the key players in the India Vacuum Blood Collection Tube Market.

## **Global and India Aluminum Easy Open End Market**

**Author:** Ajay Kumar Gupta

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Global and India Aluminum Easy Open End Market- Growth Rate, Covid 19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTERs Analysis and Demand Forecast upto 2027

India aluminium easy open ends market stood at USD 38 million in 2019 and is likely to reach USD 45 million by the end of 2027 by registering a CAGR of 5.51% during the forecast period, 2020-2027. It is due to the surge in demand for aluminium easy open ends for the packaging of bottled water, carbonated soda drinks, and non-carbonated soda drinks, will augment the growth of the aluminium easy open end industry in the forecast periods. Additionally, the increasing population rate, urbanization, industrialization, and the upsurge in the use of aluminium easy open ends to prevent tampering, contamination, and counterfeiting are expected to foster the aluminium easy open end market growth. The aluminium easy open end has distinct features, including lightweight, stackable, strong, and resistant to transportation, hermetically sealed cover, and easy recyclability, allowing brands to package and transport more beverages & food using less material. The increasing easy open ends application in-home care products & cosmetics industries and rising awareness regarding food safety amongst consumers will bolster the growth of global and India aluminium easy open end market shares in the coming years. Moreover, increasing the shelf life of products and increasing awareness of using environment-friendly materials with decreasing pack sizes will stimulate the market share. Furthermore, the increasingly stringent government regulations for food security and the rising emphasis on reducing the amount of plastic packaging will accelerate the growth of the global and India aluminium easy open end industry.

**Size Overview in the Global Aluminum Easy Open End Market**

Based on the size, the global aluminum easy open end market is segregated into 50 mm, 52 mm, 57 mm, 63 mm, 65 mm, 73 mm, and others. The 50 mm segment is estimated to witness the highest growth over the analysis timeframe due to the growing consumption and need for ready-to-eat food and reducing package serving sizes as an intervention strategy to control food intake.

**Size Overview in the India Aluminum Easy Open End Market**

Based on the size, the Indian aluminum easy open end market is segregated into 50 mm, 52 mm, 57 mm, 63

mm, 65 mm, 73 mm, and others. The 50 mm segment is estimated to witness the highest growth over the analysis timeframe due to the rise in demand for convenience packs and consumer mindfulness over calorie counting.

**Type Overview in the Global Aluminum Easy Open End Market** Based on the type, the global aluminum easy open end market is categorized into standard ends, ring-pull ends, and others. The standard ends segment accounted for the significant market share in 2019. It is due to its cost-effective and easy to open design and compatibility with the contents. Additionally, it provides an effective seal and complies with the product.

**Type Overview in the India Aluminum Easy Open End Market** Based on the type, the Indian aluminum easy open end market is categorized into standard ends, ring-pull ends, and others. The standard ends segment held for a significant market share in 2019 and will witness to gain maximum market revenue by 2027. It is attributable to its broad application in various end-use industries such as pharmaceutical and food & beverage industries.

**Application Overview in the Global Aluminum Easy Open End Market** Based on the application, the global aluminum easy open ends market is bifurcated into food and beverages. The beverage segment is further sub-segmented into sport & energy drinks, juices & smoothies, beer, and others. The beverages segment old the largest market share in 2019 and are estimated to generate maximum revenue by 2027. It is owing to the expanding demand for aluminum easy open ends for the ready to eat food products, beer-beverage, and packaging food cans.

**Application Overview in the India Aluminum Easy Open End Market** Based on the application, India aluminum easy open ends market is bifurcated into food and beverages. The beverages segment accounted for largest market share of 70% in 2019 and likely to generate highest revenue USD 31 million by 2027. It is due to the massive demand for aluminum easy open ends for the packaging of carbonated soda drinks, non-carbonated soda drinks, energy drinks, and bottled water.

**Region Overview in the Global Aluminum Easy Open End Market** By geography, the global aluminum easy open end market segmented into North America, Europe, Asia Pacific, South America, and Middle East & Africa. North America anticipated dominating the market by 2027 due to many small and medium aluminum caps & closures manufacturer's presence, rising awareness about product security & safety, and increasing demand for single-portion packs.

**Country Overview in the India Aluminum Easy Open End Market** By country, the India aluminum easy open end market segmented into North India, West India, South India, and East India. North India anticipated dominating the market by 2027 due to growing disposable earnings of

consumers, increasing population rate and expanding food & beverage sector. Global and India Aluminum Easy Open End Market: Competitive Landscape Companies such as Easy Openends India Pvt Ltd, Easy Open Lid Industry Corp Yiwu, Sonoco Products Company, Silgan Holdings, Scan Holdings Private Limited, Crown Holdings Inc, and Smart Packaging are the key players in the global and Indian aluminum easy open end market About Us: NIIR PROJECT CONSULTANCY SERVICES (NPCS), an ISO 9001:2015 company is one of the leading reliable names in industrial world for providing one of the most comprehensive suites of technical consulting services. We at NPCS are dedicated with passion and enthusiasm for helping young entrepreneurs is a real encouragement to proceed with a business start-up right from providing basic information to technology evaluation, sourcing and assimilation of detailed project reports, market survey studies and research through our advanced Industrial, Business and Commercial Databases. NPCS is a well-known technical consultancy providing focused services and we have been following stringent system and procedure to ensure only top quality strictly in conformity with delivering the needs of our clients in this rapidly growing & changing market. We have a full fledge of highly qualified Technical Consultants, Engineers, Economist and Technologists specialized in various disciplines and we take great pride in working as a team, and share the common goal of exceeding excellence. Our team is behind the success of many clients in their investment. Over the years, NPCS has become a well-known name in the industrial world for delivering a wealth of technical services and solutions to clients, both large and small. We provide the services through comprehensive knowledge of equipment and practices through our excellent team at a very economical price.

**India IV Cannula Market**

**Author:** Ajay Kumar Gupta

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**Price: Rs.** 57,230.00 **US\$** 3,000.00

India IV Cannula Market- Growth Rate, Covid 19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTERs Analysis and Demand Forecast upto 2027 The India IV Cannula Market is likely to boost due to the growing number of minimally invasive surgery procedures, increased demand for easy administration of medications or drugs, and reduced need for infections and needle pricks. The India IV cannula market size was valued at USD 8.99 million in 2019 and projected to reach USD 14.42 million by 2027, growing at a CAGR of 6% during the forecast period, 2020-2027. It is due to the increasing patient pool, rise in the number of hospitalizations and increasing number of surgeries. Further, the rise in investigational medical procedures like infusing medication or obtaining blood samples will augment the growth of the India IV cannula industry in the forecast periods. Additionally, the rising number of minimally invasive surgery (MIS) procedures and surging geriatric population is expected to foster market growth. The development of IV cannula by leading players such as the next-generation cannula designed to reduce health risks related to needle injuries and reduce the overall cost substantially will bolster India IV cannula market share in the coming years. Moreover, the increasing healthcare expenditure by the government bodies and rising incidence of chronic & lifestyle-related diseases will stimulate the market share. Furthermore, the increased implementation of product bundling strategy, rising parenteral drug approval rate and growing demand for injectable drugs will accelerate the growth of the India IV cannula industry. Product Overview in the India IV Cannula Market Based on the product type, the India IV cannula market is segregated into IV cannula with wings with injection port, IV cannula with wings without injection port and IV cannula without wings without injection port. The IV cannula with wings with injection port segment holds the largest market share with 56% in 2019 and is estimated to generate maximum revenue of USD 8 million by 2027. It is due to high adoption for surgical procedures because of its ability to offer a convenient and safe intravenous infusion of medicational fluid. It provides extra support while insertion and an additional injection port for the infusion of medicines or fluids without interfering with the

current ongoing therapy. In addition, the wings offer easy fixation and prevent slipping & rolling of cannula over the patient's body, and the injection port facilitates extra medication and prevents backflow.

**Application Overview in the India IV Cannula Market** Based on the application, the India IV cannula market is classified into hospital, clinics, ambulatory care centers, and others. The hospital segment accounted for a maximum market share in 2019 and is projected to generate maximum revenue by 2027. It is attributed to the rising prevalence of chronic diseases, a rise in hospitalization rate, and the subsequent increase in the number of patients. Moreover, the hospitals have several departments that are equipped to treat a wide array of medical issues and can admit patients for different types of surgical procedures, which leads to the growing demand for hospital treatment.

**Region Overview in the India IV Cannula Market** By region, the India IV cannula market segmented into North India, South India, West India and East India. West India dominated the India IV cannula market with the largest market share in 2019 and likely to generate the highest revenue by 2027. The growth in the region can be attributed to the presence of a well-established healthcare system, rise in general surgical procedures coupled with the increasing incidence of chronic diseases, growing government investments & funding to upgrade & improve healthcare infrastructure.

**India IV Cannula Market: Competitive Landscape** Companies such as B. Braun, Becton, Dickinson and Company, Denex International, GPC Medical Limited, La-med healthcare, Mediplus India Ltd., Mais India Medical Devices, Narang Medical Limited, and Hindustan Syringes & Medical Devices Ltd are the key players in the India IV cannula market.

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various disciplines and we take great pride in working as a team, and share the common goal of exceeding excellence. Our team is behind the success of many clients in their investment. Over the years, NPCS has become a well-known name in the industrial world for delivering a wealth of technical services and solutions to clients, both large and small. We provide the services through comprehensive knowledge of equipment and practices through our excellent team at a very economical price.

**India High Silica Quartz Grit Market**

**Author:** Ajay Kumar Gupta

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India High Silica Quartz Grit Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2028 The high silica quartz gritmarket is expected to increase owing to the surge in solar activity The Indian high silica quartz grit market is estimated to have USD 35.01 Million in 2021 and is expected to reach USD 67.53 Million by 2028 at a growth rate of 9.93%. India's high silica quartz grit market will be driven by increased industrial activity and urbanization during the anticipated year. Indian manufacturing companies are becoming more common in the high silica quartz grit market. The demand for high-purity quartz in manufacturing industries is driving the growth of India's high silica quartz grit market. Additionally, quartz grit is utilized in electronics for oscillators and filters because of its highly reliable, high-performance resonators. Due to its high melting point (about 1700° C C) and low curing temperature (573° C), quartz has many features that make it useful in the electronics sector, including piezoelectric capabilities likely to boost the Indian market during the forecasted period by 2028. Furthermore, over the past ten years, the demand for high silica quartz grit has steadily increased, and it is anticipated to create numerous opportunities for the growth of the Indian market during the projected period. Due to its remarkable physical and functional qualities, high-purity quartz is increasingly employed in the lighting business. Quartz of exceptional purity is necessary for the lighting industry. Application Overview in the High Silica Quartz Grit Market Based on Application, the high silica quartz grit market is bifurcated into Engineered Stone Industry, Ceramics, Granite, Tiles, Marble, Glass Grinding, Oil Drilling, Abrasive, Electronic Industry, and Others. The Electronic Industry segment is anticipated to hold a considerable share during the forecasted period of 2022-2028 at a significant rate. Semiconductors and electronics heavily influence the demand for high silica quartz grit-based solutions. Due to rising consumer expenditure in developing countries like India, rising demand for solution services, improved cell phone capabilities, and rising use of electric equipment in automobiles, the market for electronics products has expanded significantly in recent years. Regional Overview in the High Silica Quartz Grit Market Based on

Region, the Indian high silica quartz grit market is bifurcated into North India, South India, West India, and East India. North India is estimated to hold the largest share during the forecasted period of 2022-2028 of the high silica quartz grit market, owing to the rising construction activities across the region. In addition, the high silica quartz grit market is also anticipated to grow due to the development of the optical fibers and telecommunications sectors across the Region. Due to the rising demand for high bandwidth networks and the expanding number of internet users, high silica quartz grit is anticipated to enjoy substantial market growth. High Silica Quartz Grit Market: Competitive Landscape Sibelco Group, Jiangsu Pacific Quartz Co., Ltd, Tanvi Mines & Minerals, Mahavir Minerals Ltd, Swastik Minerals, Unique Crystal Minerals LLP, ChettinadMorimura Semi-Conductor Material Private Limited, Kiran Minerals, and Other Prominent Players. About Us: Niir Project Consultancy Services (NPCS) is research, advisory, and analytics company. We have a specialized team of consultants catering to various verticals, including Consumer Goods & Retail, Healthcare, ICT, chemicals, BFSI, and many others. In a very short time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services, which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we can help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.

## **India Hydrofluorocarbons Market**

**Author:** Ajay Kumar Gupta

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India Hydrofluorocarbons Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast upto 2028

The Hydrofluorocarbons market is expected to increase owing to surge in cold chain market coupled with the use of IoT-enabled refrigeration solutions. The Indian Hydrofluorocarbons market stood at USD 146.40 Million in 2021 and is expected to reach USD 219.44 Million by 2028 at a CAGR of 6.03% during the forecast period. The market is anticipated to increase throughout the forecast period due to rising international tourism, rising consumer expenditure on house improvements, the introduction of energy-efficient systems, and the rising popularity of green cooling concepts. Additionally, the rising demand for air conditioning systems, cooling systems, cold storage in industries, and refrigerators is predicted to result in a major increase in the use of HFCs during the upcoming years. Some of the key drivers of the market include rising urbanization and rising consumer product demand. Furthermore, the rising use of IoT-enabled refrigeration solutions is anticipated to drive the India hydrofluorocarbons market by 2028 at a significant rate during the forecasted period, 2022-2028. Commercial refrigeration increasingly uses IoT technology, which gives it access to significant new features. Due to integrated IoT sensors, users can monitor factors including internal and outdoor temperature, humidity, power usage, and more. However, the stringent regulations are predicted to create an obstacle to the growth of the Indian market at a significant rate over the forecasted period of 2022-2028. The Indian government is now enacting restrictions to restrict the use of hydrofluorocarbons because of the catastrophic harm they inflict on the ozone layer.

**Type Overview in the Hydrofluorocarbons Market Based on Type,** the Indian Hydrofluorocarbons market is bifurcated into HFC R-134A, HFC R-410A, HFC R-407C, HFC R-401A, HFC R-143A, HFC R-404A, and others. The HFC R-134A segment is anticipated to hold the largest share during the forecasted period of 2022-2028 at a significant rate. R134A is also known as tetrafluoroethane (CF<sub>3</sub>CH<sub>2</sub>F), a refrigerant that belongs to the HFC family. R134A, an HFC, is used as a substitute for R12 and R22 in medium and high-temperature refrigeration

applications, such as commercial and residential refrigeration and chillers. Additionally, it is utilized in automobile air conditioning. It is safe for normal handling because it is non-toxic, non-flammable, and non-corrosive.

**Application Overview in the Hydrofluorocarbons Market Based on Application**, the Indian Hydrofluorocarbons market is bifurcated into Refrigeration and Air Conditioning. The Refrigeration segment is anticipated to hold the largest share during the forecasted period of 2022-2028 at a significant rate owing to increasing demand for refrigeration and cooling systems from various end-use industries. Being energy-efficient, HFCs can reduce both the need for and the cost of electricity. The expanding demand for refrigerators from the pharmaceutical and biotechnology sectors is another significant factor in the revenue growth of the refrigeration market.

**Regional Overview in the Hydrofluorocarbons Market Based on Region**, the Indian Hydrofluorocarbons market is bifurcated into North India, South India, West India, and East India. The North India region is anticipated to hold the largest share during the forecasted period of 2022-2028 at a significant rate owing to strong demand from mobile air conditioning, industrial, and commercial segments. Additionally, it is projected that the government's increased promotional efforts to support energy-efficient air conditioning systems and lower energy consumption will aid in the regional market's expansion.

**Hydrofluorocarbons Market: Competitive Landscape** Gujarat Fluorochemicals Limited (GFL), Navin Fluorine International Ltd (NFIL), SRF Limited, RX Chemicals, Daikin Industries, Ltd., Arkema S.A., Asahi Glass Co. Ltd., Maharashtra Gas Company, and Other Prominent Players.

**Reasons for Buying this Report:**

- This research report helps you get a detail picture of the industry by providing overview of the industry along with the market structure and classification
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- This report helps to understand the present status of the industry by elucidating a comprehensive SWOT analysis and scrutiny of the demand supply situation
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**India Sugarcane Bagasse Biodegradable Disposable Tableware Market (Growth Rate, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, Forecast-2030)**



**Author:** P.K. Tripathi

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The India sugarcane bagasse biodegradable disposable tableware market is expected to grow significantly owing to the growing popularity of bagasse tableware products across residential, institutional, and commercial sectors due to their eco-friendly nature. The India sugarcane bagasse biodegradable disposable tableware market size was valued at USD 161.37 Million in 2021 and is expected to reach USD 359.84 Million by 2030 at a CAGR of 9.45% during the forecast period 2022-30. The market growth is attributed to the growing demand for sustainable and eco-friendly tableware along with the increasing consumer awareness of environmental concerns and Indian government restrictions on using single-use plastic products. Additionally, the high availability of sugarcane due to its high production in India is the major factor for the growth of the India sugarcane bagasse biodegradable disposable tableware market. Further, an increasing number of consumers are growing environmentally conscious, and the demand for bagasse tableware is anticipated to rise in the upcoming months and years. In comparison with other materials, bagasse tableware is eco-friendlier and sustainable since it can be composted easily. Such trends are creating revenue opportunities for manufacturers in the bagasse plates market since bagasse has a longer lifespan than other materials and can be used to make several biodegradable plates, cups, and boxes, among others. Rising disposable income, along with increasing consumer awareness about the benefits associated with the use of biodegradable tableware, is expected to drive the market. Consumers' preference for safe, reliable, and hygienic product delivery has led food service providers to choose bagasse tableware products as a perfect packaging solution. The easy availability of sugarcane in India at much lower costs makes it an attractive destination for manufacturers of bagasse tableware products, and the trend is likely to continue during the forecast period. Commercial establishments like hotels, restaurants, and cafes are increasingly adopting bagasse tableware products as an ideal alternative to plastic ones. This is helping them to cut down plastic usage, reduce pollution levels, and gain consumer confidence. Product Type Overview in the India Sugarcane Bagasse Biodegradable Disposable Tableware Market Based on product type, the India sugarcane bagasse biodegradable disposable tableware market is classified into plates, bowls,

cups, glasses, containers, trays and others. The plates segment captured the largest market share, 25.66%, in 2021 and is projected to reach USD 88.36 million by 2030. The segment's growth is attributed to the non-toxic and eco-friendly attributes of bagasse plates are grabbing the attention of consumers in commercial establishments and households and continuous research & development activities in food packaging, which is leading to the development of bagasse plates in terms of designs and shapes due to the growing demand for eye-catching and sustainable packaging of products.

#### Sales Overview in the India Sugarcane Bagasse

Biodegradable Disposable Tableware Market Based on sales, the India sugarcane bagasse biodegradable disposable tableware market is segregated into online sales, supermarkets, institutional sales, specialty stores and others.

The supermarkets segment captured the largest revenue share, 26.02%, in 2021 and is anticipated to generate USD 89.52 Million by 2030. It is due to the easy availability of bagasse tableware products in hypermarkets, supermarkets, specialty stores, etc. & End-Use Overview in the India Sugarcane Bagasse Biodegradable Disposable Tableware Market Based on the end-use, the India sugarcane bagasse biodegradable disposable tableware market is segmented into commercial use, institutional use and household use. The commercial use segment held the largest market share, 63.86%, in 2021 and is anticipated to generate revenue of USD 221.22 Million by 2030. It is due to they are widely used in commercial establishments such as hotels, cafes, restaurants, catering, etc. and these end users like restaurants, hotels, and cafes are increasingly using them as a replacement for plastic packaging solutions. Regional Overview in the India Sugarcane Bagasse Biodegradable Disposable Tableware Market By

region, the India sugarcane bagasse biodegradable disposable tableware market is segmented into North India, West India, South India and East India. North India captured the largest market share, 33.72%, in 2021 and is anticipated to generate USD 116.08 Million by 2030. It is due to the increased generation of bagasse due to the large quantity production and consumption of sugarcane in States like Uttar Pradesh and the government's crackdown on single-use plastics. India Sugarcane bagasse biodegradable disposable tableware Market: Competitive Landscape PappcoGreenware, Greenvale Eco-Products Pvt. Ltd, JinhuaZhongsheng Fiber Products Co., Ltd, Dinearth Eco Friendly Tableware, YashPakka Limited, Pulpware, Earth Eco Solutions Private Limited, DevEuro, SchonUltrawares Pvt. Ltd, Gunjan International, Eco-Healthware LLP, VisfortecPvt Ltd, Earthware and other prominent Players are the key players in the India sugarcane

bagasse biodegradable disposable tableware market. About Us: Niir Project Consultancy Services (NPCS) is a research, advisory, and analytics company. We have a specialized team of consultants catering to various verticals, including Consumer Goods & Retail, Healthcare, ICT, chemicals, BFSI, and many others. In a very short time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services, which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we can help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.

**IV Fluid (Intravenous Fluid) Market (Southern and Eastern African Countries) Growth Rate, COVID Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Regulatory Framework, PESTEL Analysis, Forecast upto 2030**

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The Eastern Africa and Southern Africa IV fluid market is expected to grow significantly owing to the growing incidence of chronic diseases, and the industry's expansion to meet the rising demands caused by the flu and coronavirus pandemics. The Eastern Africa IV fluid market Size was valued at USD 108.12 million in 2021 and is expected to reach USD 226.21 million by 2030, exhibiting a CAGR of 8.63% during the forecast period 2022 to 2030. The growth of market is attributed to the wide prevalence of malnutrition in infants, women, and children has increased the demand for nutritious intravenous solutions that can fulfil the nutritional requirement of the body, and with more hospitals and medical care centres available across the countries, including in smaller towns, the demand for IV fluid is expected to rise in Eastern Africa countries. The Southern Africa IV fluid market Size was valued at USD 215.02 million in 2021 and is projected to reach USD 440. 57 million by 2030, exhibiting a CAGR of 8.34% during the forecast period 2022 - 2030. The key factors driving the expansion of the market include increase in natality rates, rising geriatric population, and surging prevalence of cancer, increase in the prevalence of malnutrition along with growing healthcare expenditure and surging investments by health agencies of various countries in the healthcare industry. Additionally, the rise in the prevalence of chronic diseases such as cancer, HIV and other non-communicable diseases in Eastern and Southern Africa are the primary factors driving the growth of the IV fluid market during the forecast period, 2022-2030. According to WHO, the most prevalent severe non-communicable diseases in Africa include sickle cell disease, type 1 and insulin-dependent type 2 diabetes, rheumatic heart disease, cardiomyopathy, severe hypertension and moderate to severe and persistent asthma. The rising prevalence of malnutrition, shorter response time, and higher efficacy associated with intravenous solution therapy have further contributed to expanding the intravenous fluid market share. The wide prevalence of malnutrition in infants, women, and children has increased the demand for nutritious intravenous solutions that can fulfill the body's nutritional requirements. Nutrient Overview in the Southern Africa IV Fluid (Intravenous Fluid) Market Based on nutrient, the Southern Africa IV Fluid (Intravenous Fluid) market is classified into carbohydrate, amino acids, salt & electrolyte, minerals, vitamins and others. The amino acids segment held the largest market

share, 31.97%, in 2021 and is anticipated to generate revenue of USD 135.85 Million by 2030. It is owing to when a patient's metabolic requirements for protein are considerably augmented due to extensive burns, gastrointestinal absorption of protein is damaged, and the alimentary tract can't be used in such situations, a single-dose amino acid solution is given to the patient.

**Nutrition Type Overview in the Eastern Africa IV Fluid (Intravenous Fluid) Market** Based on nutrient, the Eastern IV Fluid (Intravenous Fluid) market is bifurcates into total parenteral nutrition and peripheral parenteral nutrition. The total parenteral nutrition segment held the largest market share, 67.38%, in 2021 and is anticipated to generate revenue of USD 73.49 Million by 2030. It is owing to rise in gastrointestinal diseases, such as Ulcerative Colitis (UC) and Crohn's Disease (CD), in which, patients are unable to absorb essential nutrients and thus, these essential nutrients are delivered through an intravenous route.

**Country Overview in the Eastern Africa IV Fluid (Intravenous Fluid) Market** By country, Eastern Africa IV Fluid (Intravenous Fluid) market is segmented into Democratic Republic of the Congo, Kenya, Rwanda, Uganda, Tanzania and others. Kenya dominated the Eastern Africa IV fluid market in 2021 and captured 32.42% revenue share in the same year. It is owing to the rising incidence of chronic diseases, and the industry's expansion to meet the rising demands caused by the flu and coronavirus pandemics.

**Country Overview in the Southern Africa IV Fluid (Intravenous Fluid) Market** By country, Southern Africa IV Fluid (Intravenous Fluid) market is segmented into Namibia, South Africa, Zambia, Zimbabwe, Mozambique, Botswana and Others. South Africa dominated the Southern Africa IV fluid market in 2021 and accounted for 40.84% of the overall revenue in the same year. This is due a rise in the geriatric population that leads to increased demand for intravenous solutions, and South Africa has one of the most advanced palliative system care system in Africa as it has an extensive network of hospice organization that provide care to people suffering from chronic and life-threatening illness.

**Eastern Africa and Southern Africa IV fluid Market: Competitive Landscape** Abacus Parenteral Drugs Limited, Adcock Ingram, Datlabs Private Limited, Avacare Health Group, Fresenius Kabi South Africa, International Drug Company Ltd (IDCL), Biomedical Nigeria Limited, B. Braun and Becton, Dickinson and Company and others prominent Players are the key players in the Eastern Africa and Southern Africa IV fluid market.

**Soda Ash Market of Middle East/North Africa (MENA) Growth Rate, COVID Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, PESTEL Analysis, Forecast upto 2029**

**Author:** Ajay Kumar Gupta

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MENA Soda Ash market growth is fueled by the surge in utilization of soda ash in the construction and automotive industries, rising demand from soda ash in soap detergent industry and increasing adoption of soft water. The Middle East & North Africa soda ash market size was valued at USD 425.91 million in 2022 and is projected to reach USD 629.48 million by 2029, exhibiting a CAGR of 5.77% during the forecast period 2023 – 2029. The key factors driving the expansion of the market include increasing glass and ceramics production and increased sales of automobiles, and growing construction activities in the MENA region have created the demand for glass, which uses soda ash as raw material. Additionally, the rising population and rising disposable income resulted in people spending more on housing and automobiles, and the growing use of detergent and container glass in the MENA region would drive the soda ash market during the forecast period of 2023-2029. The glass industry is the largest end-use industry of soda ash, as it is utilized in the construction industry for manufacturing doors and windows and other related products. Glass is also widely used in the automotive industry to produce various parts. Further, the oil recovery trend and emerging plant capacities are increasing the demand for soda ash. In addition, the rising industries in the MENA region, such as chemical & metallurgy, are expected to boom the MENA soda ash market. MENA soda ash market's growth is driven by its application in various applications, such as sodium carbonate heptahydrate is extensively used by the brick industry as a moistening agent to decrease the amount of water needed to extrude the clay. Due to its properties, such as a high melting point and stable but hygroscopic solid, soda ash is highly utilized in industrial manufacturing. Density Type Overview in the MENA Soda Ash Market Based on density type, the Middle East & North African soda ash market is segmented into light and dense. The dense segment captured the largest market share, 54.53%, in 2022 and is projected to reach USD 339.70 million by 2029. The segment's growth is attributed to the growing adoption of dense soda ash to produce containers, flat glasses, paper and detergents. They have high-density and quality products. These types have become prominent raw materials in various areas, such as the glass industry and detergent and paper production. End-Use



Industry Overview in the MENA Soda Ash Market Based on the end-use industry, Middle East & North African soda ash is segmented into glass & ceramic, soaps and detergents, paper and pulp, metallurgy, chemicals, water treatment and others. The glass & ceramic segment accounted for the largest revenue share, 38.69%, in 2022 and is anticipated to generate USD 237.70 Million by 2029. It is due to the rising demand for glass & ceramic in the construction, automotive and electronics industries. Soda ash is utilized to manufacture flat glass, container glass and other types of glass for end uses such as architecture, automobiles, beverages, and food. By using soda ash, the melting point of silica sand is reduced, due to which the amount of energy used and carbon dioxide emissions during the glass manufacturing process can be reduced substantially.

Country Overview in the MENA Soda Ash Market Based on the country, the MENA Soda Ash market is segmented into Saudi Arabia, UAE, Qatar, Kuwait, Egypt, Sudan, Algeria, Morocco, Israel, Oman and the Rest of MENA Countries. Egypt dominated the Middle East & North Africa soda ash market in 2022, accounting for 19.88% of the overall revenue in the same year. It is owing to the increasing population and rising disposable incomes that have resulted in people spending more on housing and automobiles, along with the growing production of glass in the MENA region, to meet the growing demands of the construction and automobile industries.

MENA Soda Ash Market: Competitive Landscape Solvay SA, SNS International Chemicals LLC, Khair Inorganic Chemical Industries Company – InoChem, Siag Chemicals Group, MUSCAT BARKA Chemical Company MBBT, Oman Chemical, ÅžİÅŸecam, Tata Chemicals, Sahand Industrial Group, Semnan Soda Ash Co. and Others Prominent Players are the key players in the MENA Soda Ash market.

About Us: Niir Project Consultancy Services (NPCS) is a research, advisory, and analytics company. We have a specialized team of consultants catering to various verticals, including Consumer Goods & Retail, Healthcare, ICT, chemicals, BFSI, and many others. In a very short time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services, which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we can help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.

**Calcium Chloride Market Of Middle East/North Africa (MENA)**  
**Growth Rate, COVID Impact, Size, Share, Trend, Drivers,**  
**Competitive Landscape, Opportunity, Limitations, PESTEL**  
**Analysis, Forecast upto 2029**

**Author:** Ajay Kumar Gupta

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The MENA calcium chloride market is expected to grow significantly owing to the recovery of the oil and gas industry where calcium chloride is used as completion fluids, drilling muds, and cementing operations. Middle East & North Africa's calcium chloride market size reached USD 99.17 million in 2022 and is likely to reach USD 146.19 million by 2029, exhibiting a CAGR of 5.71% during the forecast period 2023 - 2029. The increasing demand for calcium chloride in dust control and de-icing activities and the surging demand in the oil and gas industry in drilling fluids applications has highly influenced the growth of the calcium chloride market over the forecast period of 2023 – 2029. Additionally, the growing construction activities, increasing dust control regulations in the mining sector, and rising adoption in oil and gas well drilling represent some of the key factors driving the market. Further, the increasing adoption of calcium chloride in treating wastewater and reducing impurities from the water are fueling the growth of the MENA calcium chloride market in the forecast period. There is a rise in the construction of roads, highways, pools, office buildings, malls, playing zones, and houses around MENA countries. In addition to this, the growing utilization of calcium chloride in the construction sector as a dust-controlling agent is positively influencing the market. Growing economy in MENA countries with road infrastructure under the government's focus on modernization since the last decade, which creates opportunities for the use of ice melter. Furthermore, the surge in the adoption of calcium chloride in waste treatment and the growing number of potential applications of calcium chloride in industries such as agriculture, water treatment, construction and animal sterilization will propel the growth opportunities for the calcium chloride market in the mentioned forecast period. Product Type Overview in the MENACalcium Chloride Market Based on product type, the Middle East & North African calcium chloride market is segmented into Flakes 77%, Flakes 94%, Prills 94%, Pellets 94% and others. The Flakes 77% segment captured the largest market share, 29.86%, in 2022 and is expected to reach USD 42.30 million by 2029. This is attributed to growing demand for Flakes 77% for de-icing agents and dust management applications. Form Overview in the MENACalcium Chloride Market Based on form, the Middle East & North African calcium chloride market is segmented

into Liquid, Hydrated Solid, and Anhydrous Solid. The liquid segment held the largest share, 40.08%, in the calcium chloride market in 2022. It is owing to liquid calcium chloride that up to 35% is used with rock salt for snow and ice control. Calcium chloride reduces the repetitive and frequent application of salt by 40%. It remains active for a longer duration, thereby preventing ice from bonding with pavement or road.

**Application Overview in the MENA Calcium Chloride Market** Based on application, Middle East & North African calcium chloride is segmented into de-icing, dust control and road stabilization, drilling fluids, construction, industrial processing and others. The de-icing segment accounted for the largest revenue share, 27.15%, in 2022 and is anticipated to generate USD 38.57 Million by 2029. It is due to calcium chloride used before a snow or ice storm prevents the snow and ice from accumulating on the road, thus making it easy to clear the road. It is used as a de-icing agent as it quickly melts snow and ice.

**Raw Material Overview in the MENA Calcium Chloride Market** Based on raw material, Middle East & North African calcium chloride is segmented into natural brine, solvay process (by-product), limestone and HCL, and others. The solvay process (by-product) segment accounted for the largest revenue share, 39.88%, in 2022 and is estimated to generate USD 56.87 Million by 2029. It is due to the solvay process synthesizes high-purity limestone and salt brine solution to yield soda ash and calcium chloride as final products.

**Grade Overview in the MENA Calcium Chloride Market** Based on grade, Middle East & North African calcium chloride is segmented into food grade, pharmaceutical grade, agriculture grade, and industrial grade. The industrial grade segment captured the largest revenue share, 57.93%, in 2022 and is estimated to generate USD 84.00 Million by 2029. It is due to the industrial grade as calcium chloride is widely utilized in various industrial applications. Calcium chloride is employed in the oil and gas industry for manufacturing and maintaining oil and gas wells. In addition, the rising demand for calcium chloride in numerous drilling products, such as completion fluids, drilling muds, packer fluids, completion fluids, workover fluids, concrete accelerators, and hydraulic fracturing for preventing gas formation is bolstering the growth of the market.

**Country Overview in the MENA Calcium Chloride Market** Based on the country, the MENA calcium chloride market is segmented into Saudi Arabia, UAE, Qatar, Kuwait, Egypt, Sudan, Algeria, Morocco, Israel, Oman and the Rest of MENA Countries. Egypt dominated the Middle East & North Africa calcium chloride market with a value share of 22.00% in 2022. It is due to rising product demand in the oil and gas industry, rise in population and disposable incomes

has been increasing the demand for food processing, and growing demand in wastewater treatment problems. In addition to this, the growing utilization of calcium chloride in the construction sector as a dust-controlling agent is positively influencing the market. MENACalcium Chloride Market: Competitive Landscape Sachlo, Oman Chlorine S.A.O.G, Khair Inorganic Chemical Industries Company – InoChem, Nama Chemicals Company, Jordan Abyad Fertilizers and Chemicals Company P.S.C (JAFCCO), KorumaKlor Alkali, TCI Sanmar Chemicals, Evergrow, Solvay SA, Chloran Chemical Production Co. (CCPC Group), Al Ghaith Industries, TETRA Technologies, Occidental Petroleum Corporation, and Others Prominent Players are the key players in the MENACalcium Chloride market.

About Us: Niir Project Consultancy Services (NPCS) is a research, advisory, and analytics company. We have a specialized team of consultants catering to various verticals, including Consumer Goods & Retail, Healthcare, ICT, chemicals, BFSI, and many others. In a very short time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services, which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we can help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.



**Author:** Ajay Kumar Gupta

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According to our study, the India's solar glass market was valued at USD 833.25 million in 2022 and is expected to reach USD 5443.85 million by 2030, registering a CAGR of 26.53% in 2023-2030. The key factors for the growth of the market are the growing preference for renewable energy sources because of growing environmental concerns, and rapid increase in the development of renewable power to cope up with the increase in electricity demand. The research report highlights the growth potential of the India's solar glass market. Solar glass is expected to show enormous growth in the future market in India. However, reducing costs, and supply chain optimization remain crucial for the widespread adoption of solar glass. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the solar glass market. Solar Glass is a type of glass that converts solar energy into electricity using solar cells. It is installed on the roofs or façades of buildings to generate enough energy to power the entire structure. Solar cells are mounted between two glass panes with a specific resin filler in these glasses. Solar cells are firmly wrapped from all sides with these polymers. Borosil Renewables Ltd, Asahi India Glass Limited, CSG Holding Limited, Gujarat Guardian Limited and others prominent players are the key players in the India Solar Glass market. These manufacturers account for about 16% of the total India's solar glass market and rest of market share are occupied by importers from China, Europe, USA etc. Based on solar glass type, the photovoltaic glass captured the largest market share, 67.29%, in 2022 and is projected to reach USD 3594.58 million by 2030. Based on application, the solar energy segment accounted for the largest revenue share, 44.21%, in 2022 and is anticipated to generate USD 2320.06 million by 2030. In terms of installation, the patterned glass technology segment captured the largest revenue share, 57.92%, in 2022 and is estimated to generate USD 3092.19 million by 2030. Based on thickness, 3.2 mm segment accounted for the largest revenue share, 43.06%, in 2022 and is estimated to generate USD 2265.64 million by 2030. Key Features: The report on India's solar glass market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size

and growth of the solar glass market. It may include historical data, market segmentation by solar glass type, by thickness, by application, by installation and by module. **Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the solar glass are the rising applications of solar glass in numerous infrastructure development projects, supportive policies and initiatives of Indian government for solar plant installations, and surge in demand for solar glass in various end-user industries. It can also highlight the challenges faced by the industry, including high installation cost and lack of proper infrastructure.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the India's solar glass market. It includes profiles of key players, their market share, investment analysis, and product offerings. The report can also highlight emerging players and their potential impact on the market in next few years.

**Technological Developments:** The research report can delve into the latest technological developments in the solar glass industry. This include Panasonic Holdings Corporation developed a prototype for power-generating windows with Perovskite solar cells that can convert the facade into a renewable energy source, and India-based Deeptech solar startup Renkub is developing an AI-powered light harvesting glass that helps panels gather more sunlight and redirect it to solar cells to increase energy yield. **Indian Government Policies and Incentives:** The research report analyze the impact of government policies and incentives on the solar glass market. This may include imposition of Basic Customs Duty (BCD), 2022, Notification of The Ministry of Finance Regrading Countervailing Duty Imposition on Solar Glass Imported from Malaysia, 2021, Notification for Extension of Anti-Dumping Duty on Chinese Solar Glass for 2 Years etc. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the solar glass market. **Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the solar glass industry in India. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the solar glass market. **Market Segmentation: Solar Glass**



market is segmented by solar glass type, by thickness, by application, by installation and by module. For the period 2022-2030, the growth among segments provides accurate calculations and forecasts for consumption value by solar glass type, by thickness, by application, by installation and by module. In terms of value. Segmentation by Solar Glass Type Photovoltaic Glass AR Coated Glass Tempered Glass TCO Glass Multifunctional Glass Thermal Insulation Glass UV and IR Radiation Glass Others Segmentation by Thickness 2 mm 2.5 mm 2.8 mm 3.2 mm 4 mm Segmentation by Application Building and Construction Residential Commercial Automotive Industry Solar Energy Infrastructure Others Segmentation by Module Thin Film Modules PV Module Monofacial Bifacial Segmentation by Installation Float Glass Technology Patterned Glass Technology The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration. Borosil Renewables Ltd Asahi India Glass Limited CSG Holding Limited Gujarat Guardian Limited Key Questions Addressed in this Report What is the 7-Year Outlook for the India Solar Glass Market? What Factors are Driving Solar Glass Market Growth in India? Which Technologies are Poised for the Fastest Growth by Market? How do Solar Glass Market Opportunities Vary by End User Industry? How Does Solar Glass Break Out Solar Glass Type, Thickness, Application, Installation And Module?

# **India Glass Fibres and Glass Woven Fabrics Market**

**Author:** Ajay Kumar Gupta

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According to our study, the India's glass fibres and glass woven fabrics market was valued at USD 775.2 million in 2022 and is projected to reach USD 1342.76 million by 2030, exhibiting a CAGR of 7.16% during the forecast period 2023 - 2030. The growth of the market is attributed to the surge in demand for products in the construction industry due to increasing demand for homes and businesses as the rise in population in India, increasing demand for in automotive and transportation sectors and government initiatives globally to promote renewable energy and wind energy power project. The research report highlights the growth potential of the India's glass fibres and glass woven fabrics market. Glass fibres and glass woven fabrics is expected to show enormous growth in the future market in India. However, reducing costs, and supply chain optimization remain crucial for the widespread adoption of glass fibres and glass woven fabrics. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the glass fibres and glass woven fabrics market. Glass Fibres and glass woven fabrics is a type of fiber-reinforced plastic made using glass fiber. It is non-toxic and non-flammable in its natural state. It is utilized in severe temperatures ranging from 80°C to 200°C. Its molecular structure might be linear, branched, or a combination of both, depending on the application. Temperature resistance, lubricity, wear resistance, and fluid volatility are all provided by glass fibres and glass woven fabrics. Owens Corning, Jushi India Fiberglass Private Ltd., 3B-the Fibreglass Company, Montex Glass Fibre Industries Pvt. Ltd, Saint-Gobain India Pvt. Ltd., Mahavir Corporation, Hexcel Corporation, and BGF Industries, Inc. are the key players in the India Glass fibres and glass woven fabrics market. These manufacturers account for about 25% of the total India's glass fibres and glass woven fabrics market and rest of market share are occupied by importers and their suppliers from China, Europe, and USA etc. West and Central India is the largest market with approximately 33% share, followed by North India and South India with approximately 27% and 26% market share, respectively. Based on fiber type, E-glass segment captured the largest market share, 32.77%, in 2022 and is projected to reach USD 425.13 million by 2030. Based on fabric type, the woven segment accounted for the largest revenue share, 55.26%, in 2022 and

is anticipated to generate USD 725.84 million by 2030. In terms of application, the building & construction segment captured the largest revenue share, 21.24%, in 2022 and is estimated to generate USD 272.39 million by 2030. Key Features: The report on India's glass fibres and glass woven fabrics market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the glass fibres and glass woven fabrics market. It may include historical data, market segmentation by fiber type, by fabrics, by application, and by region. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the glass fibres and glass woven fabrics are the increased utilization of glass fiber & woven fabrics within the automotive sector, and surging demand for glass fibre & fabrics from the aerospace industry. It can also highlight the challenges faced by the industry, including high cost of production, and emission of harmful substances into environment. Competitive Landscape: The research report provides analysis of the competitive landscape within the India's glass fibres and glass woven fabrics market. It includes profiles of key players, their market share, investment analysis, and product offerings. Technological Developments: The research report can delve into the latest technological developments in the glass fibres and glass woven fabrics industry. This include METYX Composites, a manufacturer of high-performance technical textiles based in Manisa, Turkey, gained accreditation for its multiaxial glass fibre fabric products to be used in drinking water pipes, Covestro, one of the world's leading polymer companies, introduced its first 3D printing material – a glass-fibre filled recycled polyethylene terephthalate (rPET) for 3D pellet printing and China Jushi Co., Ltd. has developed E9 ultra-high modulus glass fibre to fully support the development of large-scale and lightweight wind turbine blades. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the glass fibres and glass woven fabrics market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the glass fibres and glass woven fabrics industry in India. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments. Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the glass fibres and glass woven fabrics

market. Market Segmentation: Glass fibres and glass woven fabrics market is segmented by fiber type, by fabric type, and by application. For the period 2022-2030, the growth among segments provides accurate calculations and forecasts for market value by fiber type, by fabric type, and by application, in terms of value. Segmentation by Fiber Type E-Glass A-Glass C-Glass D-Glass S-Glass Others Segmentation by Fabric Type Woven Non-Woven Segmentation by Application Optical Fiber Cables Wind Energy Railways Automotive Marine Aerospace and Defence Building and Construction Manufacturing Chemical Others This Report also splits the Market by Region: North India West and Central India South India East India The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration. Owens Corning Jushi India Fiberglass Private Ltd. 3B-the fibreglass company Montex Glass Fibre Industries Pvt. Ltd Saint-Gobain India Pvt. Ltd. Mahavir Corporation Hexcel Corporation BGF Industries, Inc. Key Questions Addressed in this Report What Is the 7-Year Outlook for the India Glass Fibres and Glass Woven Fabrics Market? What Factors Are Driving Glass Fibres and Glass Woven Fabrics Market Growth in India? Which Technologies Are Poised For The Fastest Growth By Market? How Do Glass Fibres And Glass Woven Fabrics Market Opportunities Vary By End User Industry/Application? How Does Glass Fibres And Glass Woven Fabrics Break Out Fabric Type, Fiber Type, and Application?

# India Lithium Ion Battery Recycling Market, Growth Rate, Size, Share, Drivers, Competitive Landscape, Opportunity, Forecast upto 2030

**Author:** Ajay Kumar Gupta

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This insightful analysis delves into the current state, future growth potential, and key trends shaping this dynamic sector, poised to play a crucial role in India's sustainable development journey. **Market Overview:** • The report projects the India Lithium Ion Battery Recycling Market to reach a staggering USD [Market Size] by 2030, witnessing a robust CAGR of [CAGR]%. This exponential growth is fueled by the surging demand for electric vehicles (EVs) and the increasing need for responsible battery management. • Figure 1 illustrates this trajectory, highlighting the projected market value from 2017 to 2030. **Key Drivers:** The report identifies several key drivers propelling market expansion: • **Rising EV adoption:** Figure 2 showcases the exponential growth in EV sales in India, further amplifying the demand for efficient battery recycling solutions. • **Growing demand in the power industry:** The increasing integration of lithium-ion batteries in grid storage solutions necessitates robust recycling infrastructure. • **Supportive government policies:** Initiatives like the Battery WEEE Rules 2020 and PLI schemes for battery manufacturing are creating a conducive environment for the recycling sector.

**Opportunities:** The report emphasizes lucrative opportunities for market participants: • **Commercialization of recycling technologies:** Advancements in hydrometallurgical and pyrometallurgical processes present exciting possibilities for efficient and cost-effective battery recycling. • **Strategic partnerships:** Collaboration between established players and startups can accelerate innovation and market penetration.

**Challenges:** The report acknowledges potential hurdles that need to be addressed: • **High recycling costs:** Developing cost-competitive recycling processes remains crucial for wider adoption. • **Safety concerns:** Stringent regulations and safety protocols are essential for handling spent batteries.

**Competitive Landscape:** The report provides in-depth analysis of key players like Attero Recycling, LOHUM, SungEel India Recycling, and Eco Recycling, offering insights into their: • Business overviews • Financial performance • Key solutions and services • Recent developments • Key personnel **About NIIR Project Consultancy Services (NPCS):** NIIR Project Consultancy Services (NPCS) is a leading ISO 9001:2015 certified consultancy firm providing comprehensive industrial market research, technical consulting, and project feasibility reports. With a proven track record of empowering

entrepreneurs and investors, NPCS is committed to delivering high-quality, data-driven insights to support informed decision-making. Get Your Copy Today: To gain valuable insights into the India Lithium Ion Battery Recycling Market and unlock its potential, download the full report today! &emsp;



## **Saudi Arabia and GCC Zinc sulphate, Magnesium Sulphate and Copper Sulfate Market**

**Author:** NPCS Team

**Format:** Paperback

**Book Code:** NI366

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**Price:** Rs. 212,400.00    **US\$** 3,500.00

Saudi Arabia and GCC Zinc sulphate, Magnesium Sulphate and Copper Sulfate Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PORTER's Analysis, Forecast Upto 2034 According to our study, GCC zinc sulphate market was valued at USD 33.72 million in 2022 and is anticipated to reach USD 87.77 million by 2034, registering a CAGR of 8.30% in 2023-2034. Saudi Arabia' Zinc sulphate market was valued USD 16.00 million in 2022 and is expected to reach USD 40.09 million by 2034, registering a CAGR of 7.96% in 2023-2034. Major factors that are expected to boost the growth of the zinc sulfate market in the forecast period are the rise in the production of the agrochemical, the increase in the prevalence of zinc deficiency, and the acceptance of zinc sulphate in pharmaceutical applications like dietary supplements, parenteral nutrition, oral rehydration products, and nutraceuticals and incidence of gastroenterological diseases. The research report highlights the growth potential of the GCC and Saudi Arabia zinc sulphate market. Zinc sulphate is expected to show enormous growth in the future market in GCC. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Zinc sulphate market. Zinc Sulphate is a crystalline solid. It is usually made by treating zinc, zinc sulphide, oxide, or carbonate with sulphuric acid. Zinc sulfate is widely used as preservative for leather, wood, and skin. It is widely preferred in water treatment for water purification process, flotation process of mineral separation, bleaching paper, and electro-deposition. Indian Farmers Fertiliser Cooperative Limited, Abu Qir Fertilizers and Chemical Industries Co SAE, Gujarat State Fertilizers & Chemicals Limited (GSFC), Hindustan Bec Tech India Pvt., Agro Phos (India) Limited, Sulfozyme Agro India Pvt Ltd, and HPM Chemicals & Fertilizers Ltd are the key players in the GCC and Saudi Arabia Zinc sulphate market. These manufacturers account for about 15-20% of the total GCC and Saudi Arabia Zinc sulphate market, and rest of market share is occupied by importers and distributors who are importing from China, India, Europe, USA etc. Saudi Arabia is the largest market share with, 47.29% share, followed by UAE and Oman

with approximately 30% and 12% market share, respectively. Based on type, Anhydrous segment captured the largest market share, 45.00%, in 2022 and is projected to reach USD 37.83 million by 2034. Based on application, pharmaceuticals segment accounted for the largest revenue share, 24.61%, in 2022 and is anticipated to generate USD 20.21 million by 2034. Key Features: The report on GCC and Saudi Arabia's Zinc sulphate market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the Zinc sulphate market. It may include historical data, market segmentation by type, by application, and by country. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the zinc sulphate are the increase in demand for zinc sulphate from healthcare and pharmaceutical industries, use of zinc sulfate in various industrial chemicals, agrochemicals, and other significant uses like corrosion inhibitors in water-treatment systems, flotation agents in the mining sector, and the production of detergent and cosmetics products and surge in the use of zinc sulphate in the textile industry as added in various chemicals to achieve different textile shades. It can also highlight the challenges faced by the industry, including major raw material for the production of zinc sulphate is zinc ash, which is mainly imported into GCC countries because of its lack of availability in their countries. Competitive Landscape: The research report provides analysis of the competitive landscape within the GCC and Saudi Arabia's zinc sulphate market. It includes profiles of key players, their market share, investment analysis, and product offerings. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the zinc sulphate market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the zinc sulphate industry in GCC countries. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments. Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the zinc sulphate market. Market Segmentation: Zinc sulphate market is segmented by type and by application. For the period 2013-2034, the growth among segments provides accurate calculations and forecasts for market value by type and by application, in terms of value. Segmentation by Type

Anhydrous Hexahydrate Heptahydrate Monohydrate  
Segmentation by Application Agrochemical Chemical  
Pharmaceuticals Synthetic Fibers Water Treatment Others  
This Report also splits the Market by Country: Saudi Arabia  
UAE Oman Baharain Qatar Kuwait The below companies that  
are profiled have been selected based on inputs gathered from  
primary experts and analyzing the company's coverage,  
product portfolio, its market penetration. Indian Farmers  
Fertiliser Cooperative Limited Abu Qir Fertilizers and Chemical  
Industries Co SAE Gujarat State Fertilizers & Chemicals  
Limited (GSFC) Hindustan Bec Tech India Pvt. Agro Phos  
(India) Limited Sulfozyme Agro India Pvt Ltd HPM Chemicals &  
Fertilizers Ltd Key Questions Addressed in this Report What is  
the 11-Year Outlook for The GCC and Saudi Arabia's Zinc  
Sulphate Market? What Factors are Driving Zinc Sulphate  
Market in GCC and Saudi Arabia? How do Zinc Sulphate  
Market Opportunities Vary by End User Industry? How does  
Zinc Sulphate Break out Type, and Application? According to  
our study, the GCC magnesium sulphate market was valued at  
USD 16.40 million in 2022 and is likely to reach USD 34.70  
million by 2034, registering a CAGR of 6.45% in 2023-2034.  
Saudi Arabia' magnesium sulphate market was valued USD  
8.79 million in 2022 and is expected to reach USD 17.97  
million by 2034, registering a CAGR of 6.14% in 2023-2034.  
The growth of the market is attributed to the increasing use of  
magnesium sulfate in the personal care & cosmetics sector to  
formulate a range of important personal care items,  
applications of magnesium sulphate in the food and beverage  
sector along with the increased focus on reduced plastic  
consumption and uses of magnesium sulfate is the formation  
of intravenous magnesium which is further used as a  
medication for eclampsia. The research report highlights the  
growth potential of the GCC and Saudi Arabia magnesium  
sulphate market. Magnesium sulphate is expected to show  
enormous growth in the future market in GCC. Market players  
need to invest in research and development, forge strategic  
partnerships, and align their offerings with evolving consumer  
preferences to capitalize on the immense opportunities  
presented by the Magnesium Sulphate market. Magnesium  
Sulphate is a chemical compound with the formula  $\text{Na}_2\text{SO}_4$ . It  
is a white crystalline solid that is soluble in water and most  
other organic solvents. Magnesium Sulphate is prepared by  
reacting the sodium salt of sulfurous acid with sodium sulfate.  
Magnesium Sulphate is white in color that further converts  
elemental halogens like bromide and chloride into their  
respective hydraulic acid. The Egyptian Minerals and Salts  
Company, Agro Egypt International Fertilizer Co, Mani Agro  
Chem Private Limited, Acuro Organics Limited, Global Calcium

Pvt Ltd. are the key players in the GCC and Saudi Arabia magnesium sulphate market. These manufacturers account for about 10-15% of the total GCC and Saudi Arabia magnesium sulphate market, and rest of market share is occupied by importers and distributors who are importing products from China, India, Europe, USA etc. Saudi Arabia is the largest market share with approximately 54% share, followed by UAE and Oman with approximately 24% and 11% market share, respectively. Based on form, crystal segment captured the largest market share, 65.36%, in 2022 and is projected to reach USD 21.97 million by 2034. Based on type, heptahydrate segment accounted for the largest revenue share, 41.91%, in 2022 and is anticipated to generate USD 14.86 million by 2034. In application, pharmaceutical segment accounted for the largest revenue share, 23.76%, in 2022 and is estimated to generate USD 7.69 million by 2034. Key Features: The report on GCC and Saudi Arabia's magnesium sulphate market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the magnesium sulphate market. It may include historical data, market segmentation by form, by type, by application, and by country. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the magnesium sulphate are the growing demand for magnesium sulphate from nutraceuticals industry and growing pharmaceutical industry in the GCC region and the surge in the use of magnesium sulphate for the treatment of various treatments. It can also highlight the challenges faced by the industry, including volatility in prices of magnesium salt in Saudi Arabia and GCC countries. Competitive Landscape: The research report provides analysis of the competitive landscape within the GCC and Saudi Arabia's Magnesium Sulphate market. It includes profiles of key players, their market share, investment analysis, and product offerings. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Magnesium Sulphate market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the magnesium sulphate industry in GCC countries. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments. Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the

Magnesium Sulphate market. Market Segmentation: Magnesium Sulphate market is segmented by form, by type, and by application. For the period 2013-2034, the growth among segments provides accurate calculations and forecasts for market value by form, by type, and by application, in terms of value. Segmentation by Form Crystal Powder Granules Segmentation by Type Heptahydrate Anhydrous Monohydrate Others Segmentation by Application Fertilizer Pharmaceutical Food Additive Industrial Chemical Others This Report also splits the Market by Country: Saudi Arabia UAE Oman Bahrain Qatar Kuwait The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration. The Egyptian Minerals and Salts Company Agro Egypt International Fertilizer Co Mani Agro Chem Private Limited Acuro Organics Limited Global Calcium Pvt Ltd Key Questions Addressed in this Report What is the 11-Year Outlook for the GCC and Saudi Arabia's Magnesium Sulphate Market? What Factors are Driving Magnesium Sulphate Market in GCC and Saudi Arabia? How do Magnesium Sulphate Market Opportunities Vary by End User Industry? How does Magnesium Sulphate Break out Type, Form and Application? According to our study, the GCC copper sulfate market was valued at USD 25.16 million in 2022 and is likely to reach USD 58.48 million by 2034, registering a CAGR of 7.27% in 2023-2034. Saudi Arabia' Copper Sulfate market was valued USD 16.27 million in 2022 and is expected to reach USD 36.87 million by 2034, registering a CAGR of 7.05% in 2023-2034. The key factors driving the market are the widespread product utilization in the agriculture sector, particularly as fungicides, the rising demand from the pharmaceutical sector, and the growing product utilization as a catalyst and electrolyte across various applications. The research report highlights the growth potential of the GCC and Saudi Arabia copper sulfate market. Copper Sulfate is expected to show enormous growth in the future market in GCC. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the copper sulfate market. Copper sulfate is also known as cupric sulphate which is a chemical compound having the formula  $\text{CuSO}_4$ . It is the most popular and widely used copper salt and the anhydrous form of  $\text{CuSO}_4$  is pale green powder whereas the hydrated copper sulphate is bright blue in colour. Copper sulphate is extensively used in the agricultural industry primarily as fungicides. Hindustan Copper Ltd, Shalibhadra Group, Global Calcium Pvt Ltd, Sulfozyme Agro India Pvt Ltd, and Acuro Organics Limited are the key players in the GCC

and Saudi Arabia copper sulfate market. These manufacturers account for about 10-15% of the total GCC and Saudi Arabia copper sulfate market. The rest of the market share is occupied by importers and distributors who are importing products from China, India, Europe, Turkey, USA, etc. Saudi Arabia is the largest market share with approximately 67%, followed by UAE and Oman with approximately 22% and 6% market share, respectively. Based on type, pentahydrate segment captured the largest market share, 51.49%, in 2022 and is projected to reach USD 29.26 million by 2034. Based on application, healthcare segment accounted for the largest revenue share, 24.66%, in 2022 and is anticipated to generate USD 13.49 million by 2034. Key Features: The report on GCC and Saudi Arabia's copper sulfate market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the copper sulfate market. It may include historical data, market segmentation by grade, by application, by end-use industry, and by country. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Copper Sulfate are the growth in the copper industry, wide range of applications of copper sulfate across multiple industries, and surge in need for material resources in the mining sector where copper sulfate is used as flotation reagent in concentration ores. It can also highlight the challenges faced by the industry, including limited use of copper sulfate in water treatment. Competitive Landscape: The research report provides analysis of the competitive landscape within the GCC and Saudi Arabia's Copper sulfate market. It includes profiles of key players, their market share, investment analysis, and product offerings. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the copper sulfate market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the copper sulfate industry in GCC countries. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments. Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the copper sulfate market. Market Segmentation: Copper Sulfate market is segmented by type, and by application. For the period 2013-2034, the growth among segments provides accurate calculations and forecasts

for market value by type, and by application, in terms of value.  
Segmentation by Type Anhydrous Pentahydrate Others  
Segmentation by Application Agriculture Mining and Metallurgy  
Chemicals Construction Healthcare Others This Report also  
splits the Market by Country: Saudi Arabia UAE Oman  
Baharain Qatar Kuwait The below companies that are profiled  
have been selected based on inputs gathered from primary  
experts and analyzing the company's coverage, product  
portfolio, its market penetration. Hindustan Copper Ltd  
Shalibhadra Group Global Calcium Pvt Ltd Sulfozyme Agro  
India Pvt Ltd Acuro Organics Limited Key Questions  
Addressed in this Report What is the 11-Year Outlook for The  
GCC and Saudi Arabia's Copper Sulfate Market? What Factors  
are Driving Copper Sulfate Market in GCC and Saudi Arabia?  
How do Copper Sulfate Market Opportunities Vary by End  
User Industry? How Does Copper Sulfate Break Out Type And  
Application?



## **Saudi Arabia and GCC Sodium Sulphite, Sodium Bisulphite and Sodium Metabisulfite Market**

**Author:** NPCS Team

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Saudi Arabia and GCC Sodium Sulphite, Sodium Bisulphite and Sodium Metabisulfite Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast Upto 2034 According to our study, the GCC sodium sulphite market was valued USD 5.25 million in 2022 and is expected to reach USD 10.04 million by 2034, registering a CAGR of 5.65% in 2023-2034. Saudi Arabia' sodium sulphite market was valued USD 1.97 million in 2022 and is expected to reach USD 3.60 million by 2034, registering a CAGR of 5.14% in 2023-2034. The key factors for the growth of the market are increasingly use of sodium sulphite in water and wastewater, growing awareness among people regarding their health, along with the significant spike in demand for nutritious food and purified water. Additionally, increasing use of this compound in water treatment plants across municipal corporations and commercial institutions is anticipated to further fuel market growth over the coming years. The research report highlights the growth potential of the GCC and Saudi Arabia sodium sulphite market. Sodium Sulphite is expected to show enormous growth in the future market in GCC. However, lack of resources and raw materials are major problem for growth of sodium sulphite in GCC and Saudi Arabia. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the sodium sulphite market. Sodium Sulphite is a chemical compound with the formula  $\text{Na}_2\text{SO}_4$ . It is a white crystalline solid that is soluble in water and most other organic solvents. Sodium sulphite is prepared by reacting the sodium salt of sulfurous acid with sodium sulfate. Sodium sulphite is white in color that further converts elemental halogens like bromine and chlorine into their respective hydrohalic acid. Prime Basic Chemicals Ltd, Aditya Birla Chemicals, BASF SE, INEOS Calabrian, Hunan Yueyang Sanxiang Chemical Co., Ltd, Guangdi Maoming Chemical Co., Ltd and Changsha Haolin Chemicals Co., Ltd are the key players in the GCC and Saudi Arabia sodium sulphite market. These manufacturers account for about 20%-25% of the total GCC and Saudi Arabia sodium sulphite market and rest of market share are occupied by importers and their suppliers from China, India, Europe, USA

etc. Saudi Arabia is the largest market share with approximately 37.59% share, followed by UAE and Qatar with approximately 27% and 15% market share, respectively. Based on grade, Industrial segment captured the largest market share, 78.77%, in 2022 and is projected to reach USD 7.69 million by 2034. Based on application, the de-chlorinating agent segment accounted for the largest revenue share, 30.22%, in 2022 and is anticipated to generate USD 2.88 million by 2034. In terms of end-use, pulp & paper industry segment accounted for the largest revenue share, 33.21%, in 2022 and is estimated to generate USD 3.17 million by 2034. Key Features: The report on GCC and Saudi Arabia's sodium sulphite market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the sodium sulphite market. It may include historical data, market segmentation by grade, by application, by end-use industry, and by country. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the sodium sulphite are the growing usage of sodium sulphite for water and wastewater treatment, increasing demand for sodium sulphite from the pulp and paper industry for bleaching of wood pulp and e growing use of sodium sulphite as an additive in the food & beverage industry to improve their shelf life, flavor, color, etc. It can also highlight the challenges faced by the industry, including lack of resources and raw materials in Saudi Arabia and GCC countries. Competitive Landscape: The research report provides analysis of the competitive landscape within the GCC and Saudi Arabia's sodium sulphite market. It includes profiles of key players, their market share, investment analysis, and product offerings. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the sodium sulphite market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the sodium sulphite industry in GCC countries. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments. Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the sodium sulphite market. Market Segmentation: Sodium sulphite market is segmented by grade, by application and by end-use. For the period 2013-2034, the growth among segments provides accurate calculations and forecasts for market value by grade,

by application, and by end-use, in terms of value. Segmentation by Grade Industrial Food Segmentation by Application Dissolving Agent De-chlorinating Agent Preservatives Oxygen Scavenger Photographic Chemical Intermediates Others Segmentation by End-Use Pulp & Paper Industry Water Treatment Industry Food & Beverages Cosmetics Pharmaceuticals Others This Report also splits the Market by Country: Saudi Arabia UAE Oman Baharain Qatar Kuwait The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration. Prime Basic Chemicals Ltd Aditya Birla Chemicals BASF SE INEOS Calabrian Hunan Yueyang Sanxiang Chemical Co., Ltd Guangdi Maoming Chemical Co., Ltd Changsha Haolin Chemicals Co., Ltd Key Questions Addressed in this Report What is the 11-Year Outlook for The GCC and Saudi Arabia's Sodium Sulphite Market? What Factors are Driving Sodium Sulphite Market in GCC and Saudi Arabia? How do Sodium Sulphite Market Opportunities Vary by End User Industry/Application? How does Sodium Sulphite Break out Grade, Application and End-Use? According to our study, the GCC sodium bisulphite market was valued at USD 12.61 million in 2022 and is likely to reach USD 24.75 million by 2034, registering a CAGR of 6.10% in 2023-2034. Saudi Arabia' sodium bisulphite market was valued USD 4.77 million in 2022 and is expected to reach USD 9.22 million by 2034, registering a CAGR of 5.65% in 2023-2034. The growth of market is attributed to surge in use of sodium bisulphite for water treatment to remove excess chlorine in drinking water, increase in demand for packaged food products and increase in need for safe drinking water. Additionally, rise in use of sodium bisulphite as a bleaching or antichlor agent in paper industries from the wood pulp will drive the growth of market. The research report highlights the growth potential of the GCC and Saudi Arabia sodium bisulphite market. Sodium Bisulphite is expected to show enormous growth in the future market in GCC countries. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the sodium bisulphite market in GCC countries. Sodium Bisulphite also known as sodium hydrogen sulfite is a chemical compound with the chemical formula  $\text{NaHSO}_3$ . Sodium Bisulphite is used as preservatives in food and as a bleaching agent in the pulp and paper, textile, and in the photographic. Aditya Birla Chemicals, BASF SE, INEOS Calabrian, Shandong Kailong Chemical Technology Development Co., Ltd., and GRILLO-Werke AG are the key players in the GCC and Saudi Arabia sodium bisulphite market.

These manufacturers account for about 12-16% of the total GCC and Saudi Arabia sodium bisulphite market and rest of market share is occupied by importers and distributors who are importing products from China, India, Europe, USA, Turkey, etc. Saudi Arabia is the largest market share with 39.19 % share, followed by UAE and Qatar with 27.09% and 15.92% market share, respectively. Based on grade, technical segment captured the largest market share, 64.96%, in 2022 and is projected to reach USD 15.94 million by 2034. Based on application, water treatment segment accounted for the largest revenue share, 37.38%, in 2022 and is anticipated to generate USD 8.77 million by 2034. In terms of end-use, water and wastewater treatment industry segment accounted for the largest market share, 25.21%, in 2022 and is estimated to generate USD 5.86 million by 2034. Key Features: The report on GCC and Saudi Arabia's sodium bisulphite market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the sodium bisulphite market. It may include historical data, market segmentation by grade, by application, by end-use industry, and by country. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the sodium bisulphite are the surging use of sodium bisulphite in wastewater treatment, increase in demand for sodium bisulphite as a preservative in the food industry, and growing usage of sodium bisulfite in a variety of applications, including food preservation, wastewater treatment, metal finishing, winemaking, image development, and corrosion protection. It can also highlight the challenges faced by the industry, including various harmful effects of sodium bisulphite, such as irritation to the skin, eyes, and respiratory tract. Competitive Landscape: The research report provides analysis of the competitive landscape within the GCC and Saudi Arabia's Sodium Bisulphite market. It includes profiles of key players, their market share, investment analysis, and product offerings. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the sodium bisulphite market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the sodium bisulphite industry in GCC countries. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments. Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and

contribute to the growth and development of the Sodium Bisulphite market. Market Segmentation: Sodium Bisulphite market is segmented by grade, by application and by end-use industry. For the period 2013-2034, the growth among segments provides accurate calculations and forecasts for market value by grade, by application, and by end-use industry, in terms of value. Segmentation by Grade Food Technical Others Segmentation by Application Food Additive Bleaching Agent Water Treatment Antichlor Reducing Agent Others Segmentation by End-Use Industry Food & Beverage Water and Wastewater Treatment Textile Paper & Pulp Leather Pharmaceuticals Mining Film and Photography Others This Report also splits the Market by Country: Saudi Arabia UAE Oman Bahrain Qatar Kuwait The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration. Aditya Birla Chemicals BASF SE INEOS Calabrian Shandong Kailong Chemical Technology Development Co., Ltd. GRILLO-Werke AG Key Questions Addressed in this Report What is the 11-Year Outlook for The GCC and Saudi Arabia's Sodium Bisulphite Market? What Factors are Driving Sodium Bisulphite Market in GCC and Saudi Arabia? How do Sodium Bisulphite Market Opportunities Vary by End User Industry/Application? How does Sodium Bisulphite Break out Grade, Application and End-Use? According to our study, the GCC sodium metabisulphite market was valued at USD 7.52 million in 2022 and is likely to reach USD 18.29 million by 2034, registering a CAGR of 7.69% in 2023-2034. Saudi Arabia' Sodium Metabisulphite market was valued USD 3.07 million in 2022 and is expected to reach USD 7.12 million by 2034, registering a CAGR of 7.28 % in 2023-2034. The growth of market is attributed to rising product applications in various sectors including food & beverage, textile industry, leather industry, pulp & paper, water treatment, and chemical & pharma. Further, surging use of sodium metabisulfite as disinfectant, and antioxidant in cosmetics and personal care products further fuel the market growth. The research report highlights the growth potential of the GCC and Saudi Arabia sodium metabisulphite market. Sodium Metabisulphite is expected to show enormous growth in the future market in GCC. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the sodium metabisulphite market in GCC and Saudi Arabia. Sodium metabisulfite, also known as sodium pyrosulfite or disodium, is an inorganic compound comprising sulfur, sodium and oxygen. Its chemical formula is  $\text{Na}_2\text{S}_2\text{O}_5$  and it occurs in a white or

yellowish-white crystalline powder. It easily dissolves in water. Its unique chemical properties make it an exceptional choice for functions like reducing, preserving, and antioxidation, making it indispensable in various sectors. Aditya Birla Chemicals, BASF SE, Akkim Kimya Sanayi A.Ş., Shandong Kailong Chemical Technology Development Co., Ltd, GRILLO-Werke AG, INEOS Calabrian Ltd are the key players in the GCC and Saudi Arabia sodium metabisulphite market. These manufacturers account for about 15-20% of the total GCC and Saudi Arabia sodium metabisulphite market and rest of market share is occupied by GCC –based importers and suppliers/ distributors who are importing from China, India, Europe, USA etc. Saudi Arabia is the largest market share with 40.79%, followed by UAE and Qatar with approximately 30% and 15% market share, respectively. Based on grade, technical/industrial grade segment captured the largest market share, 68.73%, in 2022 and is projected to reach USD 11.99 million by 2034. Based on application, the preservative segment accounted for the largest revenue share, 24.29%, in 2022 and is anticipated to generate USD 4.19 million by 2034. In terms of end-use industry, water treatment segment accounted for the largest revenue share, 32.20%, in 2022 and is estimated to generate USD 5.64 million by 2034. Key Features: The report on GCC and Saudi Arabia's sodium metabisulphite market reflects various aspects and provide valuable insights into the industry. Market Size and Growth: The research report provide an overview of the current size and growth of the sodium metabisulphite market. It may include historical data, market segmentation by grade, by application, by end-use industry, and by country. Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the sodium metabisulphite are the growing consumption of sodium metabisulfite from the waste treatment industry, increasing demand for sodium metabisulfite from the mining industry as a floating agent and cyanide detoxification, flourishing food & beverage industry in GCC countries, especially in UAE and Saudi Arabia and growing use of sodium metabisulfite as an antioxidant in many pharmaceutical formulations. It can also highlight the challenges faced by the industry, including health issues associated with sodium metabisulfite. Competitive Landscape: The research report provides analysis of the competitive landscape within the GCC and Saudi Arabia's sodium metabisulphite market. It includes profiles of key players, their market share, investment analysis, and product offerings. Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the sodium metabisulphite market. Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and

outlook for the sodium metabisulphite industry in GCC countries. This includes projections of market size, growth rates, segmentation-wise growth rates, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the sodium metabisulphite market.

**Market Segmentation:** Sodium Metabisulphite market is segmented by grade, by application and by end-use industry. For the period 2013-2034, the growth among segments provides accurate calculations and forecasts for market value by grade, by application, and by end-use industry, in terms of value.

**Segmentation by Grade** Food Grade Technical/Industrial Grade Photo Grade

**Segmentation by Application** Bleaching Agent Floating Agent Preservative Reducing Agent Sanitizing Agent Others

**Segmentation by End-Use Industry** Food & Beverage Paper and Pulp Pharmaceutical Photographic Industry Water Treatment Others

This Report also splits the Market by Country: Saudi Arabia UAE Oman Bahrain Qatar Kuwait

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Aditya Birla Chemicals BASF SE Akkim Kimya Sanayi A.Ş. Shandong Kailong Chemical Technology Development Co., Ltd GRILLO-Werke AG INEOS Calabrian

**Key Questions Addressed in this Report**

- What is the 11-Year Outlook for The GCC and Saudi Arabia's Sodium Metabisulphite Market?
- What Factors are Driving Sodium Metabisulphite Market in GCC and Saudi Arabia?
- How do Sodium Metabisulphite Market Opportunities Vary by End User Industry/Application?
- How does Sodium Metabisulphite Break out Grade, Application and End-Use Industry?



# **India Surgical Cotton and Cotton Balls Market Size, Share, Growth and Demand Forecast to 2030**

**Author:** Ajay Kumar Gupta

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**Price:** Rs. 35,400.00    **US\$** 700.00

Niir Project Consultancy Services Announces New Market Research Report: "India Surgical Cotton and Cotton Balls Market Size, Share, Growth and Demand Forecast to 2030"

This comprehensive report provides valuable insights into the current state and future prospects of the Indian surgical cotton and cotton balls market. **Market Overview and Research Objective** The report begins by defining the surgical cotton and cotton balls market and outlining the objectives of the study. It provides a clear understanding of the product and its various applications in the healthcare sector. The analysis period of the study is also clearly defined, along with the data reporting unit and key stakeholders involved in the market. **Robust Research Methodology** The report outlines the detailed research methodology employed by NPCS to gather and analyze data. This includes a combination of primary and secondary research techniques. The report delves into the regional split of the research, explaining how the primary and secondary data were collected from different regions across India. The secondary research methodology details the various sources of information used, such as government reports, industry publications, and company websites. The primary research methodology explains how NPCS conducted surveys, interviews, and focus group discussions with various industry participants, including manufacturers, distributors, and end users. Furthermore, the report details the breakdown of primary research respondents by industry participants, providing a clear picture of the data collection process. The market size estimation methodology is also explained, outlining the various factors considered to arrive at an accurate market size forecast. **Current Market Scenario and Future Outlook** The report provides a comprehensive overview of the current scenario of the Indian surgical cotton and cotton balls market. It analyzes the market size and growth prospects, offering insights into the future potential of the industry. **Market Dynamics: Drivers, Opportunities, Trends, and Challenges** The report dives deep into the various factors influencing the growth of the Indian surgical cotton and cotton balls market. It identifies key drivers, such as the rising incidence of road accidents and sports injuries, and the increasing prevalence of chronic diseases in India. The report also explores potential opportunities presented by the burgeoning investment in healthcare infrastructure and the growing demand for

high-quality medical supplies. Additionally, the report analyzes emerging trends in the market, such as rapid technological advancements in surgical dressings. However, the report also acknowledges the challenges faced by the market, such as the high cost of advanced surgical dressings. It also analyzes the impact of the Indian government's regulatory framework and policies on the market.

**Competitive Landscape and Company Profiles** The report provides a detailed competitive analysis of the Indian surgical cotton and cotton balls market. It profiles leading companies operating in the market, including Narang Medical Limited, Nagreeka Exports, Mohini Health & Hygiene, Precot Limited, Mamta Cotton Industries, and Swan Medicot. These company profiles offer insights into their business overview, financial performance, key products, and key personnel. This information provides valuable insights into the competitive landscape and helps businesses make informed decisions.

**Key Financials and Analysis** The report goes beyond basic market size and growth analysis to delve into key financial aspects of the industry. It provides insights into the capacity of the market, the raw materials used, and the working capital turnover ratio. Furthermore, the report analyzes the structure of assets, return ratios, profit, profitability ratios, liquidity ratios, and liabilities of the industry. It also examines the income expenditure, growth in income and expenditure, growth in assets and liabilities, and cost of sales of the market. These financial insights provide a comprehensive understanding of the health and performance of the Indian surgical cotton and cotton balls market.

**Reasons to Buy Our Reports**

- **Comprehensive and In-Depth Analysis:** Our reports offer a thorough analysis of the market, covering various aspects like market size, growth, dynamics, and competitive landscape.
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- **Actionable Insights:** Our reports offer valuable insights that can help businesses make informed decisions about their market strategies, investments, and product development.
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- **Rigorous Research Methodology:** We employ robust research methodologies to ensure the accuracy and reliability of our reports.
- **Data-Driven Insights:** Our reports are based on data-driven insights that provide businesses with actionable

information. • Global Coverage: We offer market research reports on a wide range of industries across various regions. The "India Surgical Cotton and Cotton Balls Market Size, Share, Growth and Demand Forecast to 2030" report by Niir Project Consultancy Services is a valuable resource for businesses, investors, and other stakeholders interested in gaining insights into the Indian surgical cotton and cotton balls market. The report provides comprehensive market analysis, insightful company profiles, and key financial data, making it an essential tool for informed decision-making. About Niir Project Consultancy Services (NPCS) Niir Project Consultancy Services (NPCS) is a leading provider of market research reports, technical consultancy services, and project feasibility studies. With a vast experience of over 30 years, NPCS has a proven track record of providing reliable and insightful market research data to various industries.

**India Menthol Crystal Market**

**Author:** Niir Team

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The India menthol crystal market reached USD 111.55 million in 2021 due to increasing demand for natural-based products from the cosmetics and pharmaceutical industry. The India menthol crystal market was valued at USD 111.55 million in 2021 and is likely to grow with a CAGR of 6.71%, in value terms, over the forecast period 2022-2028 and is expected to reach USD 172.97 million by 2028. The growth of growth is attributed to the rapid expansion of pharmaceutical companies along with the surge in demand for natural menthol crystals in pharmaceutical industries, rising usage of menthol crystals in cough syrups, analgesic balms, and foot sprays, and growing demand for menthol crystals among the geriatric population to treat used to treat minor aches and pains of the muscles or joints such as arthritis, backache, and sprains. Additionally, the rapid pace of urbanization in India, improving living standards, and rising disposable income leads to demand for natural plant-based health and cosmetics are expected to fuel the growth of India menthol crystal market in India. Moreover, a surge in demand for natural menthol crystals in the food and beverages industries as a flavor and fragrance agent in food such as chewing gums, candy, confectionery and flavor and fragrance agents in a beverage are influencing the India menthol crystal market. These menthol crystals are widely used as a denaturant, flavoring agent, and fragrance ingredient in the formulation of a wide variety of cosmetics and personal care products such as soap, bath, aqueous cream, Talcum Powder etc. The surge in the usage of menthol crystal in various end industries will propel the demand for menthol crystal in the upcoming years.

**Type Overview** in the India Menthol Crystal Market Based on the type, the India menthol crystal market is categorized into natural menthol crystal and synthetic menthol crystal. The natural menthol crystal segment captured the highest market share with 72.78% in 2021 and is expected to generate USD 128.07 million in revenue by 2028. The growth of the segment is attributed to the surge in demand for natural menthol crystal as raw materials for manufacturing cosmetic products and used as a flavor and cooling agent in cough medicines and Lozenges.

**Application Segmental Analysis** Based on the application, the India menthol crystal market is segregated into pharmaceutical formulations, cosmetics, flavoring industries, and others. The

pharmaceutical formulations segment accounted for the highest market share with 71.70 % in 2021 and is projected to reach USD 121.36 million by 2028. It is due to menthol crystal used in pharmaceutical formulations for its analgesic and cooling effects and used as a flavoring agent for toothpaste, hygiene products, chewing gum, etc. Menthol crystals have effective antispasmodic properties, are highly potent in relaxing muscles and are widely used to treat minor aches & pains of the muscles/joints (such as arthritis, backache, sprains). Regional Overview in the India Menthol Crystal Market By region, the India Menthol Crystal market is segmented into North India, South India, West India, and East India. North India captured the largest market share with 36.72% in 2021 and is projected to generate revenue of USD 61.96 million by 2025 due to North India's states being the major producer of menthol crystal in India. Menthol crystals in India are mostly grown in states like Uttar Pradesh, Haryana, Bihar, and other parts of India. Uttar Pradesh is the largest producer of Mentha oil, accounting for 90% of the country's total Mentha production, followed by Punjab, Haryana, Bihar, and Madhya Pradesh. India Menthol Crystal Market: Competitive Landscape Companies include Takasago International Corporation, Expo Essential Oils, N.S. Mint Products Pvt. Ltd., K.M. Chemicals, A.G. Industries, Bhagat Aromatics Ltd, Silverline Chemicals, Hindustan Mint & Agro Products Pvt., Neeru Menthol Private Limited, Vinayak Ingredients (INDIA) Pvt. Ltd. are the key players in the India menthol crystal market. About Us: NPCS is a research, advisory, and analytics company. We have a specialized team of consultants catering to a wide range of verticals, which include Consumer Goods & Retail, Healthcare, ICT, Chemical, BFSI, and many others. In a very short span of time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we are able to help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.

**Global and India Type 4 Cylinders Market**



**Author:** Ajay Kumar Gupta

**Format:** Paperback

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Global and India Type 4 Cylinders Market, Growth Rate, Covid-19 Impact, Economic Impact, Size, Share, Trend, Drivers, Competitive Landscape, Opportunity, Limitations, Technological Landscape, Regulatory Framework, PESTEL Analysis, PORTER's Analysis, Forecast up to 2030 The global and India type 4-cylinder market is expected to grow significantly owing to the mounting urbanization and accelerating disposable income The global type 4-cylinder market size was valued at USD 279.31 Million in 2021 and is expected to grow at a CAGR of 7.46% during the forecast period. However, India's type 4-cylinder market is projected to reach USD 23.11 Million by 2030 at a growth rate of 7.73%. The growth in demand for lightweight cylinders with higher pressure requirements, more gas carrying capacity per cylinder and the rising number of natural gas vehicles (NGVs) are the main factors driving the type 4-cylinder market. Additionally, the market for type 4 cylinders is anticipated to grow significantly due to increased technological innovation and investments from the major players. Further, the surge in demand for lightweight, explosion proof and non-corrosive LPG & CNG cylinders and government push towards the usage of composite cylinders are propelling the growth of the type 4-cylinder market in the future periods. Preference of end users for type 4- cylinders due to their ease of handling and partial visibility is driving the demand in the type 4-cylinder cylinder market. The Internet of Things (IoT)-powered smart composite cylinder communicates to customer devices and the LPG distributors' IT infrastructure. The system allows distributors to adjust their supply logistics and stocks in real-time and notifies users of the amount of gas still in their cylinders. The growing adoption of type 4- cylinders across various end-use sectors, including automotive, marine & defense, household, fleet owners, oil industry and others, owing to numerous benefits of these cylinders over traditional metal cylinders such as improved safety, lighter weight, and superior corrosion resistance are estimated to influence the growth of type 4-cylinders market over the forecast periods. Cylinder Type Overview in the Global Type 4-cylinder Market Based on cylinder type, the global type 4-cylinder market is classified into CNG, biogas, hydrogen, and LPG. The CNG segment generated USD 131.50 million in revenue in 2021 and is expected to reach USD 240.24 million by 2030 with a CAGR of

7.11% during the forecast period, 2022-2030. The segment's growth is attributed to Type 4 CNG Cylinders, typically around 70% weight reduced over Type 1 and 2 Steel cylinders and 5% to 35% weight reduced over Type 3 Aluminum liner-based cylinders because of the presence of lightweight HDPE liner. The Type 4 cylinders have higher Class pressure withstanding capacity when compared with Type 3 cylinders.

**Fiber Type Overview in the Global Type 4-cylinder Market** Based on fiber type, the global type 4-cylinder market is segregated into glass fiber composites and carbon fiber composites. The carbon fiber composites segment captured the highest market of 55.96% in 2021 and is projected to reach USD 288.21 million by 2030. It is due to this carbon fiber coating ensures higher heat resistance, helically wound on the liner in combination with resin to impart high tensile strength. Glass fiber is estimated to hold a considerable share in the global type 4-cylinder market over the forecasted period of 2022-2030. Glass fiber composites are a particular kind of fiber-reinforced polymer composite with qualities like low density, high strength, and simplicity in production. As a result, the aerospace, automotive, and construction industries all utilize it substantially. Glass fibers are the most typical reinforcing fiber used in polymeric matrix composites.

**Application Overview in the Global Type 4-cylinder Market** Based on the application, the global type 4-cylinder market is segmented into industrial, household, marine & defense, fleet owners and others. The industrial segment is further sub-segmented into the automotive industry, oil & gas industry, chemical industry and others. The industrial segment generated USD 127.70 million in revenue in 2021 and is expected to reach USD 232.38 million by 2030 with a CAGR of 7.07% from 2022-2030. The segmented growth is attributed to the growing demand for CNG, biogas and hydrogen gas in commercial and private vehicles. Natural gas is a proven alternative fuel that has long been used to power natural gas vehicles. These cylinders are 30% of the weight of steel, improving vehicle range, payload, handling and reducing fuel consumption.

**Distribution Channel Overview in the Global Type 4-cylinder Market** Based on the distribution channel, the global type 4-cylinder market is segmented into OEM and gas distribution companies. The OEM segment holds the highest market share of 65.47% in 2021 and is projected to generate USD 335.81 million by 2030. It is because major type 4-cylinder manufacturers have started their distribution channel and marketing & sell offices in developing nations worldwide. The high prices of these cylinders prohibit gas distribution companies from immediately adopting steel cylinders with the type-4 composite cylinder in under-developed and developing countries.

**Regional Overview in the Global Type 4-cylinder**

Market By region, the global type 4-cylinder market is segmented into North America, Europe, Asia Pacific, South America, and Middle East & Africa. The Europe region generated USD 101.63 million in revenue in 2021 and is likely to reach USD 165.14 million by 2030 with a CAGR of 6.98% during the forecast period, 2022-2030. There has been a substantial growth in the use of automobiles in Europe emerging nations, which has increased the demand for fossil fuels. The government announced several support policies to encourage the development of natural gas-powered automobiles for commercial use to decrease the imports of fossil fuels. Furthermore, the benefits of using natural gas in the transportation sector will favor the environment, which is expected to drive the market.

**Global and India Type 4-cylinder Market: Competitive Landscape** Hexagon Composites, Luxfer Gas Cylinder, Aburi Composites, Faber IndustrieSpA, Time Technoplast Limited, Indoruss Synergy, Everest Kanto Cylinder Limited, Worthington Industries, Inc., Supreme Industries Ltd., and others prominent Players are the key players in the global type 4-cylinder market.

**About Us:** NIIR Project Consultancy Services is a research, advisory, and analytics company. We have a specialized team of consultants catering to various verticals, including Consumer Goods & Retail, Healthcare, ICT, chemicals, BFSI, and many others. In a very short time, we have expanded beyond the basic services to advanced research services such as Financial Modelling, Supply & Demand Analysis, Pricing Analysis, Competitive Analysis, and various other services, which not only facilitates the senior executives across industries but giants who have established names in different industry verticals. Through our indispensable business insights, we can help our clients to achieve the mission-critical tasks which facilitate them to build the organizations of tomorrow.

**Reasons for Buying this Report:**

- This research report helps you get a detail picture of the industry by providing overview of the industry along with the market structure and classification
- The report provides market analysis covering major growth driving factors for the industry, latest market trends and insights on regulatory framework in the industry
- This report helps to understand the present status of the industry by elucidating a comprehensive SWOT analysis and scrutiny of the demand supply situation
- Report provides analysis and in-depth financial comparison of major competitors
- The report provides forecasts of key parameters which helps to anticipate the industry performance

**Our Approach:**

- Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.
- The market forecasts are developed on the basis of secondary research and are

cross-validated through interactions with the industry players •  
We use reliable sources of information and databases,  
information from which is processed by us and included in the  
report Market Research Reports, India and Global Industry  
Analysis ,Market Trends, Market Insight, Market structure,  
Market outlook Indian Industry Size, Share, Trends, Analysis  
and Forecasts report, sector Growth Driver, company profiles,  
key financials, ratios.

# About NIIR

**NIIR PROJECT CONSULTANCY SERVICES (NPCS)** is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.

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**NIIR PROJECT CONSULTANCY SERVICES** , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** [npcs.india@gmail.com](mailto:npcs.india@gmail.com) **Website:** [NIIR.org](http://NIIR.org)

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