

India Bitumen Market By Product Type (Paving, Penetration, Oxidized/Blown, Cutback, Emulsion, and Polymer Modified Binders), By Viscosity Grade (VG10, VG30, VG40 and Others), By Application (Roadways, Waterproofing, Adhesives, Insulation, and Others), By Region, Competition, Forecast and Opportunities, 2018-2028F

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Report description:

The India Bitumen Market was valued at USD 1.36 billion in 2023 and is expected to experience substantial growth in the forecast period, with a projected Compound Annual Growth Rate (CAGR) of 2.28% through 2029 and is expected to reach at USD 1.54 billion by 2029 . Bitumen, a viscous substance ranging from black to dark brown, primarily consists of high molecular weight hydrocarbons. It is a semi-solid product derived from the distillation of crude oil, obtained by separating the heavier fractions from the lighter ones during the refining process. Bitumen's physical characteristics include adhesion, water resistance, hardness, ductility, and a higher softening point. The growth of the Indian bitumen market is largely driven by the increase in road and building construction activities. The construction of national highways, expressways, and airport runways significantly boosts the demand for bitumen across the country. Bitumen is processed into asphalt for road construction purposes. Furthermore, the government's heightened investments in the development of national highways and expressways, along with special programs for enhancing road connectivity and housing projects, are expected to propel market growth. Additionally, bitumen finds extensive usage in the construction industry for roofing applications, contributing to the growth of the Indian bitumen market.

Key Market Drivers

Rapid Urbanization and Infrastructure Development

India is currently experiencing rapid urbanization and extensive infrastructure development, leading to a growing demand for construction materials. Bitumen has become a crucial component in India's infrastructure initiatives, as it is essential for creating

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durable roads, robust buildings, and efficient transportation networks. Bitumen plays a vital role in road construction by acting as a binding agent in asphalt mixtures, resulting in durable and flexible road surfaces capable of withstanding heavy traffic and diverse weather conditions. With the expansion of cities and the emergence of new urban centers, there is a heightened requirement for high-quality roads, driving the growth of the bitumen market. The construction industry relies on bitumen for waterproof roofing systems, protective coatings, and sound insulation, among other applications. In regions like India with extreme weather variations, these properties are crucial for the longevity and sustainability of infrastructure projects. Additionally, bitumen's flexibility and adhesive properties make it an ideal material for constructing bridges and tunnels, which are integral components of a comprehensive infrastructure network.

Growing Demand for Bitumen from the Automotive Industry

Bitumen, also known as asphalt, has long been a fundamental component in the construction industry due to its binding properties and durability. The ambitious infrastructure development projects in India have significantly increased the consumption of bitumen. Smooth and durable road surfaces are crucial for the efficiency of the automotive industry, reducing vehicle wear and tear and enhancing fuel efficiency. Bitumen-modified polymers are incorporated into tire manufacturing to improve grip, reduce rolling resistance, and extend tire life. These advancements contribute to better fuel efficiency, reduced emissions, and enhanced safety, aligning with the automotive industry's sustainability goals. Bitumen is also used to minimize noise and vibration within vehicles, contributing to a quieter and more comfortable driving experience. As electric vehicles gain prominence, bitumen finds applications in EV battery encapsulation due to its insulation properties and resistance to heat and moisture. Bitumen-based underbody coatings protect vehicles against corrosion and environmental factors, extending their lifespan and reducing maintenance costs. With India's automotive sector aligning with global trends, the bitumen market is poised for growth, demonstrating the synergy between industries in shaping a sustainable future.

Innovations in Bitumen Technology

Bitumen, a sticky and viscous liquid derived from crude oil, plays a vital role in road construction. One significant breakthrough in bitumen technology is the development of Polymer-Modified Bitumen (PMB), which enhances properties like flexibility and durability. This technology allows roads to withstand diverse climatic conditions and heavy traffic loads, reducing the need for frequent maintenance. Nano technology has led to Nano Bitumen, which improves adhesive properties and resistance to temperature fluctuations, resulting in longer-lasting and resilient roads. Warm Mix Bitumen technology allows mixing and laying at lower temperatures, reducing energy consumption and extending the lifespan of equipment. Recycled bitumen technology involves reusing old asphalt pavements, conserving resources and reducing waste. Self-healing bitumen closes small cracks autonomously, reducing maintenance needs. These innovations contribute to more durable, sustainable, and efficient infrastructure, enhancing the overall quality of India's roads.

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Key Market Challenges

Volatility in Crude Oil Prices

Bitumen is derived from crude oil, and its price is closely linked to crude oil prices. Fluctuations in crude oil prices impact bitumen production costs, which can affect construction project budgets and timelines. Factors like geopolitical tensions, production levels, economic conditions, and natural disasters influence crude oil prices. This volatility poses challenges for manufacturers, construction companies, and infrastructure developers in predicting and managing costs. India's infrastructure projects rely heavily on bitumen, and fluctuations in crude oil prices can disrupt project budgets and lead to delays or cancellations. The uncertainty of crude oil prices hampers long-term project planning and investments in infrastructure and construction.

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Health and Environmental Concerns

The production, transportation, and application of bitumen result in the release of volatile organic compounds (VOCs) and particulate matter, contributing to air pollution and health issues. Workers in the bitumen industry are exposed to hazards like skin irritations and respiratory problems. Improper disposal of bitumen waste can lead to soil and water contamination. Bitumen's dark color contributes to the urban heat island effect, raising temperatures in cities. Proper waste management and safety measures are essential to address these challenges and minimize the impact of bitumen-related activities on health and the environment.

Key Market Trends

Adaptation to Climate Variability

India's diverse geography leads to varying susceptibility to climate change impacts such as erratic monsoons, flooding, droughts, and heatwaves. The bitumen industry is increasingly focusing on reducing its environmental impact, including carbon emissions and waste generation. Companies are adopting cleaner production methods and recycling bitumen waste to conserve resources and reduce waste. Climate-resilient road construction materials are gaining prominence to create durable and sustainable roads capable of withstanding changing weather conditions.

Segmental Insights

Product Type Insights

In 2022, the Paving segment dominated the Bitumen market and is expected to continue expanding. Road construction initiatives, including national highway projects and rural road construction, drive the demand for bitumen emulsion. Government projects like Bharatmala and Pradhan Mantri Gram Sadak Yojana are expected to boost the demand for bitumen and contribute to the growth of the India bitumen market.

Application Insights

In 2022, the roadways segment dominated the Bitumen market and is expected to continue expanding. The construction of national and state highways, expressways, and rural roads drives the demand for bitumen. Initiatives like Pradhan Mantri Gram Sadak Yojana are focused on connecting rural areas with cities through well-built all-weather roads, contributing to the growth of the market.

Regional Insights

The North Indian region leads the India Bitumen Market due to significant road network development initiatives and increased demand for bitumen. Government projects in states like Uttar Pradesh and Punjab are driving infrastructure development. Additionally, maintenance and repair of rural roads under Pradhan Mantri Gram Sadak Yojana are expected to contribute to the growth of the bitumen market in North India.

Key Market Players

- Indian Oil Corporation Ltd.
- Hindustan Petroleum Corporation Ltd.
- Bharat Petroleum Corporation Ltd. (BPCL)
- Oil & Natural Gas Corporation (ONGC)

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- Total SA
- Tiki Tar Industries India Ltd.
- Agarwal Industrial Corporation Ltd.
- Juno Bitumix Pvt. Ltd.
- Universal Bituminous Industries Pvt. Ltd.
- Swastik Tar Industries

Report Scope:

In this report, the India Bitumen Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

□□India Bitumen Market, By Product Type:

- o□Paving
- o□Penetration
- o□Oxidized/Blown
- o□Cutback
- o□Emulsion
- o□Polymer Modified Binders

□□India Bitumen Market, By Viscosity Grade:

- o□VG10
- o□VG30
- o□VG40
- o□Others

□□India Bitumen Market, By Application:

- o□Roadways
- o□Waterproofing
- o□Adhesives
- o□Insulation
- o□Others

□□India Bitumen Market, By Region:

- o□North India
- o□East India
- o□West India
- o□South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Bitumen Market.

Available Customizations:

India Bitumen Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

- 1.□Product Overview
 - 1.1.□Market Definition
 - 1.2.□Scope of the Market
 - 1.2.1.□Markets Covered
 - 1.2.2.□Years Considered for Study

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- 1.2.3.□Key Market Segmentations
- 2.□Research Methodology
 - 2.1.□Objective of the Study
 - 2.2.□Baseline Methodology
 - 2.3.□Key Industry Partners
 - 2.4.□Major Association and Secondary Sources
 - 2.5.□Forecasting Methodology
 - 2.6.□Data Triangulation & Validation
 - 2.7.□Assumptions and Limitations
- 3.□Executive Summary
 - 3.1.□Overview of the Market
 - 3.2.□Overview of Key Market Segmentations
 - 3.3.□Overview of Key Market Players
 - 3.4.□Overview of Key Regions/Countries
 - 3.5.□Overview of Market Drivers, Challenges, and Trends
- 4.□Voice of Customers
- 5.□Impact of COVID-19 on India Bitumen Market
- 6.□India Bitumen Market Outlook
 - 6.1.□Market Size & Forecast
 - 6.1.1.□By Value & Volume
 - 6.2.□Market Share & Forecast
 - 6.2.1.□By Product Type (Paving, Penetration, Oxidized/Blown, Cutback, Emulsion, and Polymer Modified Binders)
 - 6.2.2.□By Viscosity Grade (VG10, VG30, VG40 and Others)
 - 6.2.3.□By Application (Roadways, Waterproofing, Adhesives, Insulation, and Others)
 - 6.2.4.□By Region (North, South, East, West)
 - 6.2.5.□By Company (2022)
 - 6.3.□Product Market Map
- 7.□North India Bitumen Market Outlook
 - 7.1.□Market Size & Forecast□
 - 7.1.1.□By Value
 - 7.2.□Market Share & Forecast
 - 7.2.1.□By Product Type
 - 7.2.2.□By Viscosity Grade
 - 7.2.3.□By Application
- 8.□South India Bitumen Market Outlook
 - 8.1.□Market Size & Forecast□
 - 8.1.1.□By Value
 - 8.2.□Market Share & Forecast
 - 8.2.1.□By Product Type
 - 8.2.2.□By Viscosity Grade
 - 8.2.3.□By Application
- 9.□East India Bitumen Market Outlook
 - 9.1.□Market Size & Forecast□
 - 9.1.1.□By Value
 - 9.2.□Market Share & Forecast
 - 9.2.1.□By Product Type
 - 9.2.2.□By Viscosity Grade

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9.2.3.	By Application
10.	West India Bitumen Market Outlook
10.1.	Market Size & Forecast
10.1.1.	By Value
10.2.	Market Share & Forecast
10.2.1.	By Product Type
10.2.2.	By Viscosity Grade
10.2.3.	By Application
11.	Market Dynamics
11.1.	Drivers
11.2.	Challenges
12.	Market Trends & Developments
12.1.	Merger & Acquisition
12.2.	Product Development
12.3.	Recent Developments
13.	Porters Five Forces Analysis
13.1.	Competition in the Industry
13.2.	Potential of New Entrants
13.3.	Power of Suppliers
13.4.	Power of Customers
13.5.	Threat of Substitute Products
14.	Pricing Analysis
15.	Policy & Regulatory Framework
16.	Competitive Landscape
16.1.	Business Overview
16.2.	Company Snapshot
16.3.	Products & Services
16.4.	Financials (As Reported)
16.5.	Recent Developments
16.5.1.	Indian Oil Corporation Ltd.
16.5.2.	Hindustan Petroleum Corporation Ltd.
16.5.3.	Bharat Petroleum Corporation Ltd. (BPCL)
16.5.4.	Oil & Natural Gas Corporation (ONGC)
16.5.5.	Total SA
16.5.6.	Tiki Tar Industries India Ltd.
16.5.7.	Agarwal Industrial Corporation Ltd.
16.5.8.	Juno Bitumix Pvt. Ltd.
16.5.9.	Universal Bituminous Industries Pvt. Ltd.
16.5.10.	Swastik Tar Industries
17.	Strategic Recommendations
18.	About Us & Disclaimer

India Bitumen Market By Product Type (Paving, Penetration, Oxidized/Blown, Cutback, Emulsion, and Polymer Modified Binders), By Viscosity Grade (VG10, VG30, VG40 and Others), By Application (Roadways, Waterproofing, Adhesives, Insulation, and Others), By Region, Competition, Forecast and Opportunities, 2018-2028F

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