

Production of

<u>Bitumen Emulsion</u>

Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule, Working Capital Requirement, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis



Introduction

Bitumen emulsion is a liquid product in which bitumen is suspended in a finely divided condition in an aqueous medium and stabilised by suitable material. Normally cationic type emulsions are used in India. The bitumen content in the emulsion is around 60% and the remaining is water. When the emulsion is applied on the road it breaks down resulting in release of water and the mix starts to set. The time of setting depends upon the grade of bitumen.



Three types of bituminous emulsions are available, which are Rapid setting (RS), Medium setting (MS), and Slow setting (SC). Bitumen emulsions are ideal binders for hill road construction. Where heating of bitumen or aggregates are difficult. Rapid setting emulsions are used for surface dressing work. Medium setting emulsions are preferred for premix jobs and patch repairs work. Slow setting emulsions are preferred in rainy season.



Bitumen is used as a binder in road construction and in protective coatings and adhesives used in the construction industry. In the most common processes the bitumen is heated to 100–200° C until fluid enough to mix with aggregate.



Advantages and Uses of Bitumen Emulsions are:

- Bitumen emulsion are used extensively in bituminous road construction. Other than this they are used for maintenance and repair work.
- Emulsions can be used in wet weather even if it is raining.
- Bitumen emulation is also used in soil stabilization in desert areas.



- It doesn't need extra heat while placing.
- There is no wastage in placing and laying of bitumen.
- They possess anti-stripping properties.
- Rapid setting type of emulsion are used in surface of roads.



- Medium setting type of emulsion are used in premixing of bitumen emulsion and coarse aggregate.
- Slow setting type of emulsion are used with fine aggregates as the surface area is large and requires time for uniform mixing.



Market Outlook

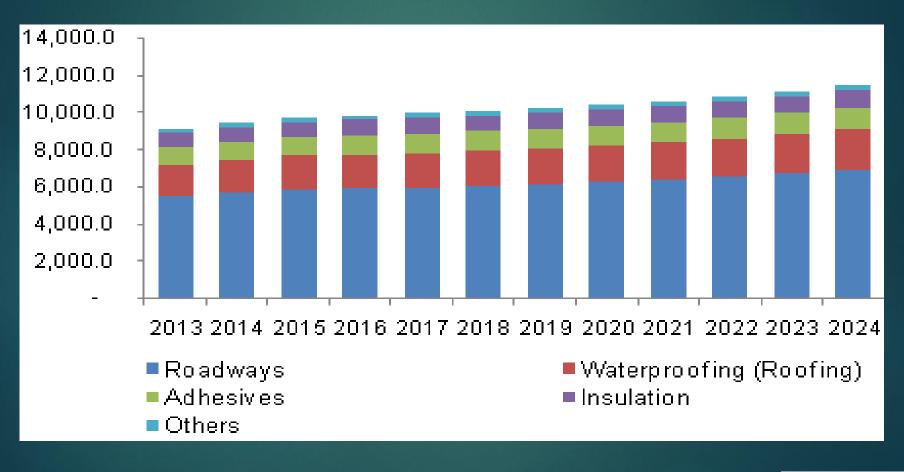
Global bitumen demand is expected to reach 122 million tonnes in 2018 and the increasing road construction activities in the fast growing markets of China and India are expected to drive the growth of the bitumen market in Asia. India's bitumen consumption will outpace production in the coming years as demand is expected to accelerate.



The global bitumen market's growth rate is, however, restrained to a high degree by the environmental hazards created by the use of bitumen.



U.S. Bitumen Market Revenue, By Application, 2013 - 2024 (USD Million)



npcs

Bitumen market share for waterproofing applications was valued at over USD 9 billion in 2015. The product is widely used in waterproofing applications such roofing and piping. Superior water resistance characteristics of the product makes it suitable to finds widespread applications across construction industry, owing to boost the business growth by 2024.



Road construction to meet 40km per day target next year.

Construction of road works by the ministry in the past two years has been progressing at a speed of 17.3 km per day.

A record length of about 10,000 km was awarded and about 6,000 km of road stretches were completed in 2015-16. The current construction rate for national highways has gone up to about 18 km per day.



The sector also received a 25 per cent higher allocation (central plan outlay) in the 2016-17 Budget.

Analysts estimate that only 30 percent of the highway construction target of about 15,000 kilometres for FY17 achieved in the first nine months of FY17.



India will invest as much as Rs.2.21 trillion in creating and upgrading infrastructure in the next fiscal year. In 2015, India awarded the highest number of road projects by length and produced the highest number of motor vehicles.



The government plans to develop road projects spanning 50,000km and entailing investments of about \$250 billion over the next five to six years, The pace of completion of road projects will also rise 10,000km in 2016-17. In addition, nearly to 50,000km of state highways will also be taken up for upgradation to national highways.



COST OF PROJECT

MEANS OF FINANCE

| | | | | | | Propose | |
|---------------------|----------|----------|--------|--------------------|----------|---------|--------|
| Particulars | Existing | Proposed | Total | Particulars | Existing | d | Total |
| Land & Site | | | | | | | |
| Development Exp. | 0.00 | 10.00 | 10.00 | Capital | 0.00 | 92.90 | 92.90 |
| Buildings | 0.00 | 85.00 | 85.00 | Share Premium | 0.00 | 0.00 | 0.00 |
| | | | | Other Type Share | | | |
| Plant & Machineries | 0.00 | 142.95 | 142.95 | Capital | 0.00 | 0.00 | 0.00 |
| Motor Vehicles | 0.00 | 10.00 | 10.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation | | | | | | | |
| Equipments | 0.00 | 22.50 | 22.50 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow | | | | Internal Cash | | | |
| Fees & Exp. | 0.00 | 15.00 | 15.00 | Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other | | | | Long/Medium Term | | | |
| Deposits | 0.00 | 0.00 | 0.00 | Borrowings | 0.00 | 278.70 | 278.70 |
| Preliminary& Pre- | | | | | | | |
| operative Exp | 0.00 | 4.00 | 4.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for | | | | Unsecured | | | |
| Contingencies | 0.00 | 15.00 | 15.00 | Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - | | | | | | | |
| Working Capital | 0.00 | 67.15 | 67.15 | | | | |
| TOTAL | 0.00 | 371.60 | 371.60 | TOTAL | 0.00 | 371.60 | 371.60 |



| Yea r | Annualised | | Book Valu e | Debt | Divide nd | | ined ings | Payou t | Probab le Market Price | Ratio | Yield Price/ Book Value |
|----------|------------|-------|-------------------|-------|--------------|-----------|--------------|------------|---------------------------------|-------|----------------------------|
| | | | _ | | Per | | | | | No.of | |
| | EPS | CEPS | Per Share | | Share | Per Share | | | | Times | |
| | Rs | Rs | Rs | Rs | Rs | % | Rs | % | Rs | | % |
| 1- | | | | | | 100.0 | | | | | |
| 2 | 5.39 | 9.44 | 15.39 | 24.00 | 0.00 | 0 | 5.39 | 0.00 | 5.39 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 2-3 | 7.93 | 11.46 | 23.31 | 18.00 | 0.00 | 0 | 7.93 | 0.00 | 7.93 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 3-4 | 10.55 | 13.62 | 33.86 | 12.00 | 0.00 | 0 | 10.55 | 0.00 | 10.55 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 4-5 | 13.11 | 15.80 | 46.97 | 6.00 | 0.00 | 0 | 13.11 | 0.00 | 13.11 | 1.00 | 0.00 |
| | | | | | | 100.0 | | | | | |
| 5-6 | 15.59 | 17.95 | 62.56 | 0.00 | 0.00 | 0 | 15.59 | 0.00 | 15.59 | 1.00 | 0.00 |



| Year | r D. S. C. R. Debt / Equity Total Retur Profitability Ratio - as- Net n on Depos Equity Worth Net its Debt - Debt | | | | | | Assets Turnov er Ratio | | | | | | | |
|-------------|--|----------------|-------------|--------------|--------|------|---------------------------------|-------|-------|-------|-----------------------------|--------------|------|------|
| | | Cumul ative | Over all | | | | | GPM | PBT | PAT | Net Contri butio n | P/V Ratio | | |
| | (Number of times) | | | (Num) tim | ber of | % | % | % | % | % | | % | | |
| Initi al | linoni | | mesj | 3.00 | 3.00 | 70 | 70 | 70 | 70 | 70 | | /0 | | |
| 1- 2 | 1.37 | 1.37 | | 1.56 | 1.56 | 4.87 | | 4.71% | 2.08% | 1.49% | 314.1 0 | 9.38 % | 4.06 | 1.08 |
| 2-3 | 1.63 | 1.50 | | 0.77 | 0.77 | 3.29 | | 5.17% | 2.84% | 1.89% | 354.2 1 | % | 4.26 | 1.16 |
| 3-4 | 1.97 | 1.64 | 1.97 | 0.35 | 0.35 | 2.34 | | 5.48% | 3.40% | 2.19% | | % | 4.30 | 1.24 |
| 4-5 | 2.37 | 1.80 | | 0.13 | 0.13 | 1.73 | | 5.69% | 3.81% | 2.42% | 454.8 3 | 9.06 % | 4.24 | 1.34 |
| 5-6 | 2.85 | 1.97 | | 0.00 | 0.00 | 1.34 | | 5.83% | 4.10% | 2.60% | 505.1 4 | 9.05 % | 4.13 | 1.54 |
| ¢ | www.entrepreneurindia.co | | | | | | | | | | | | | |

BEP

| BEP - Maximum Utilisation Year | 5 |
|--|-----------|
| Cash BEP (% of Installed Capacity) | 49.95% |
| Total BEP (% of Installed Capacity) | 54.28% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return (In %age) | 27.71% |
| | 2 Years 3 |
| Payback Period of the Project is (In Years) | Months |
| Fixed Assets Coverage Ratio (No. of times) | 34.621 |



Major Queries/Questions Answered in the Report?

- 1. What is Bitumen Emulsion Production industry?
- 2. How has the Bitumen Emulsion Production industry performed so far and how will it perform in the coming years ?
- 3. What is the Project Feasibility of Bitumen Emulsion Production Plant ?
- 4. What are the requirements of Working Capital for setting up Bitumen Emulsion Production plant ?



5. What is the structure of the Bitumen Emulsion Production Business and who are the key/major players ?

- 6. What is the total project cost for setting up Bitumen Emulsion Production plant?
- 7. What are the operating costs for setting up Bitumen Emulsion Production plant ?
- 8. What are the machinery and equipment requirements for setting up Bitumen Emulsion Production plant?



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bitumen Emulsion Production plant ?

- **10.** What are the requirements of raw material for setting up Bitumen Emulsion Production plant?
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bitumen Emulsion Production plant ?
- 12. What is the Manufacturing Process Bitumen Emulsion ?



13. What is the total size of land required for setting up Bitumen Emulsion Production plant ?

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21.What is the Break-Even Analysis of Bitumen Emulsion Production plant?

22.What are the Project financials of Bitumen Emulsion Production project?



23. What are the Profitability Ratios of Bitumen Emulsion Production plant?

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Reasons for buying our report:

- This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product
- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by

identifying the target customer group of the product



- This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials
- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions





• 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. And information from such sources is processed by us and included in the report



The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Bilumen Emulsion" provides an insight into the Bitumen Emulsion market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Bitumen Emulsion project. The report assesses the market sizing and growth of the Indian Bitumen Emulsion Industry. 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. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Bilumen Emulsion sector in India along with its business prospects. Through this report we have identified Bilumen Emulsion project as a lucrative investment avenue.





Bitumen Emulsion Plant, Bitumen Emulsion Manufacturing Process, Production of Bitumen Emulsion, Bitumen Emulsion Unit, Bitumen Emulsion Production, Process of Producing Bitumen Emulsion, Bitumen Emulsion Process, How to Make Bitumen Emulsion, Manufacturing Process of Bitumen Emulsion Industry, Bitumen Emulsions Manufacturing, Bitumen Emulsion Manufacturing Project Report, Method of Preparing Bitumen Emulsions, Producing Bitumen Emulsions, Guidelines for Production of Bitumen Emulsion, Manufacture of Bitumen Emulsions, Project Report on Manufacturing Unit of Bitumen Emulsion, Preparation of Bitumen Emulsion, Bitumen Road Emulsion, Bitumen Emulsion Manufacturing Plant, Plant for Bitumen Emulsion Production, Process for Preparing Bitumen Emulsions, Bitumen Emulsion Production Plant, Methods of Preparing Bitumen Emulsion, Equipment for Bitumen Emulsion Production, Industrial Bitumen Emulsion Production, Processing of Bitumen Emulsion, Project Report on Bitumen Emulsion Manufacturing Unit, Manufacture of Bitumen Emulsion, Bitumen Emulsion Manufacturing Business, Bitumen Emulsion Manufacturing Project, Bitumen Emulsion Manufacture, Bitumen Emulsion for Road Construction, Road Bitumen Emulsion Manufacture, Bitumen Emulsions in Road Construction, Road Construction in India,





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Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, Project Report for Bank Loan, Project Report for Bank Finance, Project Report Format for Bank Loan in Excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Detailed Project Plan Reports



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Production of Bitumen Emulsion

Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule, Working Capital Requirement, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis





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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



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- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the **Project**

Market potential survey/research

Report Compilation



Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- \circ NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- O Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- O Breakfast Snacks And Cereal Food
- O Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling



- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



- Copper & Copper Based Projects
- Dairy/Milk Processing
- O Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing



- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries



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- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- *Maize Processing(Wet Milling) & Maize Based Projects*
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.



- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.



- Potato And Potato Based Projects
- Printing And Packaging
- *Real Estate, Leisure And Hospitality*
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals



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- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable



Contact us

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