



Business Investment Opportunities in Bentonite

(Quarrying, Processing & Exporting).

Profitable Business Ideas in Clay and Minerals Industry

Introduction

Bentonite is the commercial name of a whole range of natural clays with a high water absorption capacity causing it to expand and swell. Bentonite predominantly consists of montmorillonite: a clay mineral belonging to a class of phyllosilicates called smectites. Bentonites may contain a variety of accessory minerals in addition to montmorillonite. These may include lesser amounts of other clay minerals such as kaolin, mica, illite, as well as non-clay minerals like quartz, feldspar, calcite, and gypsum. Bentonite quality, and, consequently, its applications, depend on whether it contains any of these other minerals.



Bentonite is an industrial mineral, rich in a clay mineral called montmorillonite. Bentonites used for hydraulic barriers in North America are produced from the naturally occurring sodium bentonites mined in the state of Wyoming. These bentonites have a unique cation chemistry. The cations that balance electrostatic charge in the clay structure are “exchangeable” cations and consist of sodium (Na⁺), calcium (Ca⁺⁺), and Mg (++) cations. The largest deposits of commercial sodium bentonite are found in Wyoming, Montana and South Dakota.



Bentonite has high swelling properties along with good viscosity and liquid limit. These properties are highly valued in most of the industrial applications. Sodium bentonite is well suited as a binder in the preparation of pellets and in foundry and as oilwell drilling mud. Bentonite also acts as a suspending agent in oil-well drilling fluids and is abundantly used in horizontal drilling for shale production. Bentonite exhibits good green strength along with high hot and dry strength which helps in preventing moulds from breaking or cracking during the pouring or cooling process in the foundry industry.

Bentonite clay is also used in pyrotechnics, to make end plugs and rocket engine nozzles. Bentonite has remarkable colloidal and waterproofing properties. Bentonite gels are used as a carrier for a number of cosmetic preparations, toothpastes, creams, etc. Bentonite is also used in Chemical, Rubber, Insecticide & Pesticide Industries and in civil construction works.

Uses & Application:

- **It is used as of fillers earth.**
- **It is used as emulsifiers for oils.**
- **Refining of Vegetable oils**
- **Refining of Non Edible Oils Like**
- **Refining of Mineral Oil Like**
- **Refining of Animal Fats**
- **Refining of Hydrogen**
- **It is used as a base for plaster.**
- **It is used as pharmaceuticals aids.**
- **It is used as bonding agent in foundry sands and pelletizing of iron ores.**
- **It is used as sealant for canals wall.**

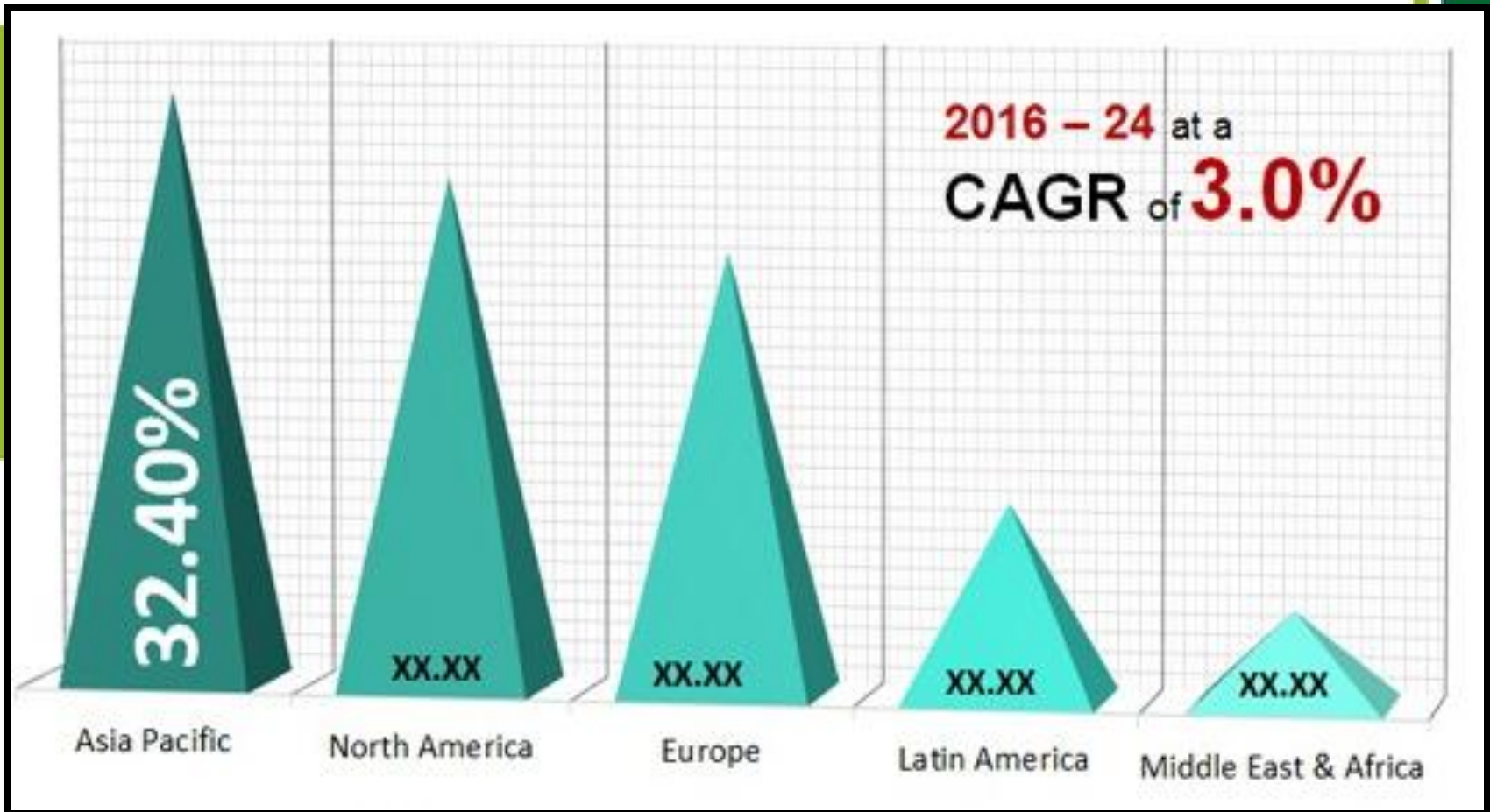
- **It is used for thickness in lubricating grease and fire proofing compositions.**
- **It is used in the cosmetics.**
- **It is used as fillers in ceramics, refractories, paper coating.**
- **It is used as asphalt modifiers.**

The significant growth in the foundry and metal casting industries has had the most significant influence on the global market for bentonite. The rise in the automotive and the machinery and heavy equipment manufacturing industries has been boosting the demand for foundry and metal casting applications across the world. As bentonite is extensively utilized in these applications, a subsequent increase in its demand has been observed since the past few years, reflecting greatly on the progress of this market.

The global market for bentonite offered an opportunity worth US\$1.42 bn in 2015. Researchers anticipate it to rise at a CAGR of 3.0% from 2016 to 2024 and reach a value of US\$1.85 bn by the end of 2024.



Global Bentonite Market (%), By Region (2015)



The global bentonite market is mainly influenced by the ongoing expansion in the construction industry. The increasing demand for smart infrastructure, coupled with rising expenditure in infrastructural development, has boosted the construction industry across the world, which in turn, is reflecting greatly on the sales of bentonite, as it is one of the important components used in the construction of a structure.

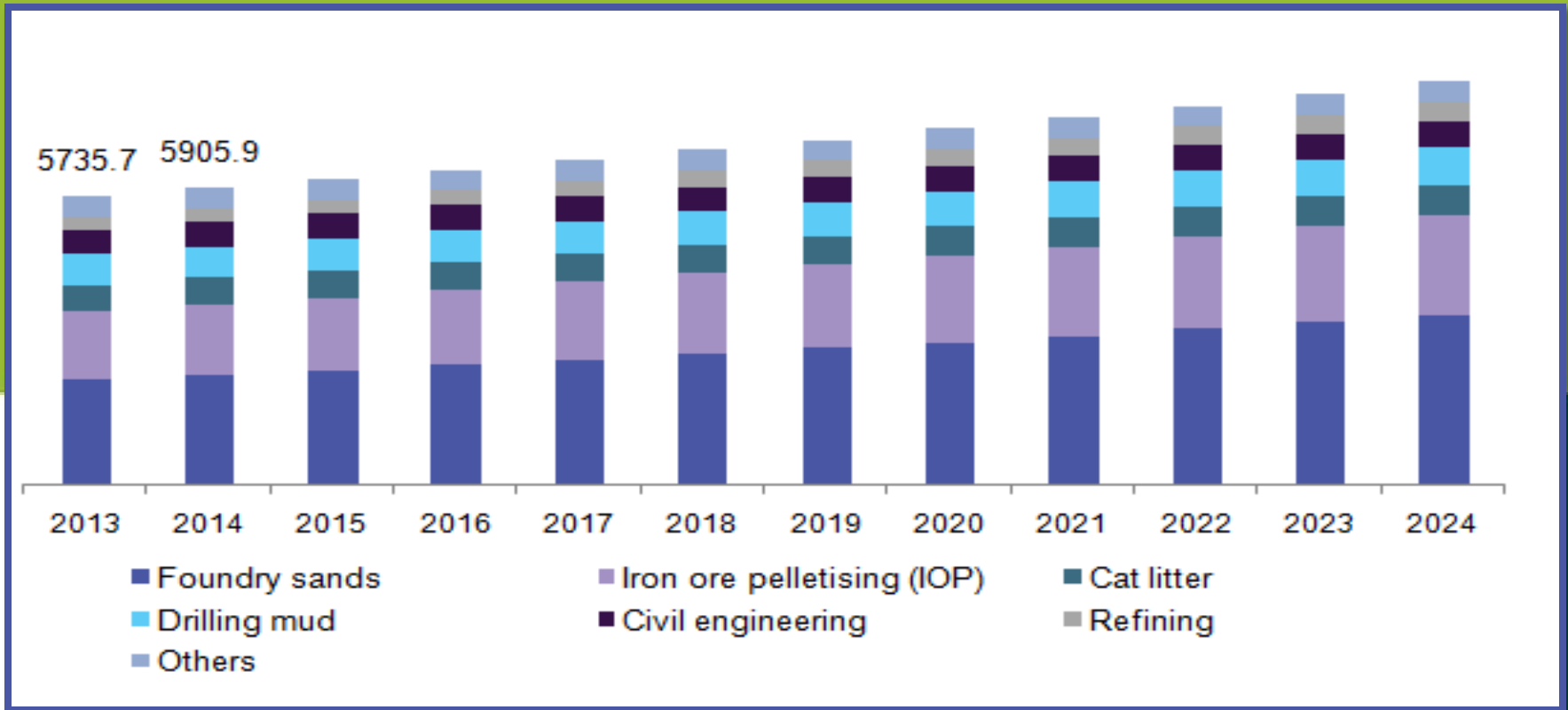
With continual urbanization, the demand for bentonite is anticipated to increase substantially in the near future, leading to a high growth of this market. However, the sluggish growth rate of the oil and gas industry and the declining demand for IOP grade bentonite in China may hamper the market's progress over the next few years.

Nonetheless, the surge in the cosmetics and personal care industry and the persistent demand for iron casting from the heavy equipment manufacturing and the automotive industries are projected to boost this market significantly in the years to come.

Increasing product use across industries as groundwater barriers, absorbents for pet litter and oil & grease, liquor clarifiers, and binders in iron & steel manufacturing is anticipated to propel industry growth over the next eight years.



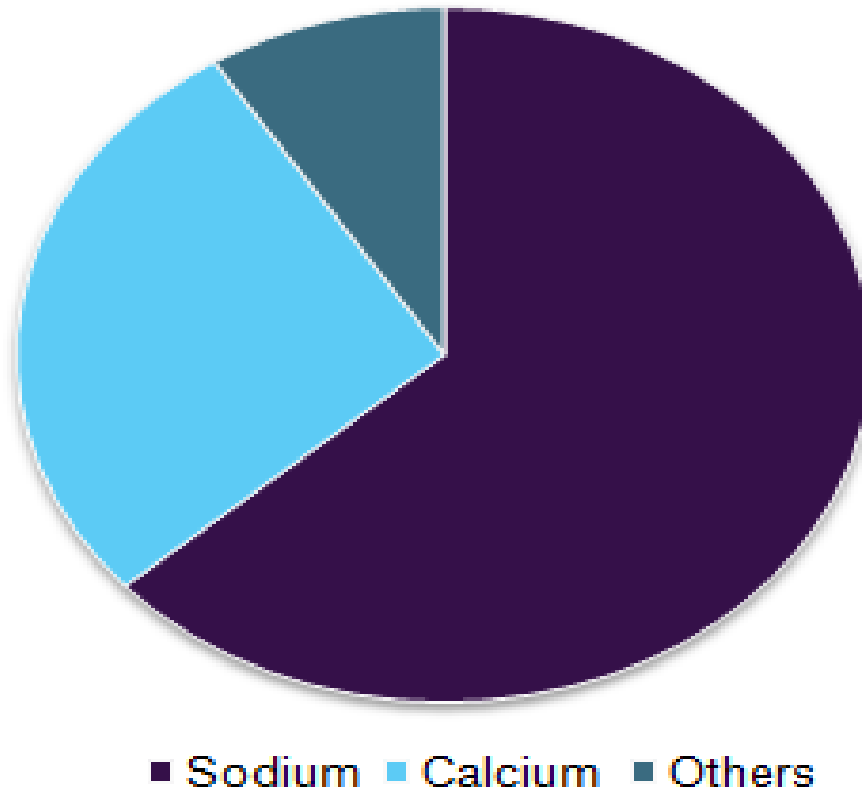
U.S. Market Volume, By Application, 2013 - 2024, (Kilo Tons)



The global bentonite market has been segmented by products into sodium, calcium and others such as aluminum and potassium. Calcium and sodium bentonite are both widely employed in drilling mud. The global sodium bentonite accounted for over 60% of the total revenue in 2015. It is an effective sealant owing to its chemical proof sealing capacity which makes it permanent, easy to install and inexpensive.

Bentonite is one of the key raw materials used in construction. It has an ability to swell and gel when dispersed in water, which is used in construction, primarily in excavation and foundation works. Rising construction industry is therefore expected to propel the bentonite market during the forecast period, owing to its use in various construction applications.

Global Bentonite Market Volume, By Product, 2015



The global bentonite market is segmented on the basis of region, product type, end-use application and end-use industry. Product type is further sub-segmented into sodium, calcium and others (includes potassium and aluminum). On the basis of end-use application, the market is further sub-segmented into drilling fluid, binder, sealant, adsorbent/absorbent, clarification agent and others (includes bleaching, sprays and papermaking). On the basis of end-use industries the market is segmented into six segments namely; oil, construction, pharmaceuticals, foundry, foods and others. Key regions covered in the report include North America, Latin America, Western Europe, Eastern Europe, Asia Pacific Excluding Japan, Middle East & Africa and Japan.

Value of Production of Bentonite (By States)

(Value in ₹'000)

| State | 2011-12 | 2012-13 | 2013-14(P) |
|--------------|--------------|---------------|---------------|
| India | 71307 | 907770 | 817825 |
| Gujarat | 33697 | 728770 | 790800 |
| Rajasthan | 37610 | 179000 | 27025 |

Consumption of Bentonite (By Industries)

| Industry | 2012-13 | 2013-14(R) | 2014-15(P) |
|---------------------------------|--------------|--------------|--------------|
| All Industries | 73400 | 79700 | 70700 |
| Alloy steel | 900 (2) | 900 (2) | 900 (2) |
| Ceramic | 700 (7) | 700 (7) | 700 (7) |
| Chemical | 7500 (3) | 7500 (3) | 7500 (3) |
| Electrode | 14(3) | 17(3) | 19(3) |
| Fertilizer | 3300 (1) | 3300 (1) | 3300 (1) |
| Foundry ^(e) | 6100 (21) | 6100 (21) | 6100 (21) |
| Iron & Steel | 17400 (6) | 19800(3) | 19800(2) |
| Oil-well drilling | 23400 (2) | 22000 (2) | 22000 (2) |
| Pelletisation (iron & steel) | 9600 (2) | 15100 (2) | 6000(2) |
| Refractory | 4500 (11) | 4300 (11) | 4400(11) |

Few Indian major players are as under:

- **Ashapura Minechem Ltd.**
- **Bituminex Cochin Pvt. Ltd.**
- **Earth International Pvt. Ltd.**
- **Gimpex Pvt. Ltd.**
- **Jamipol Ltd.**
- **Laviosa India Pvt. Ltd.**
- **Neelkanth Rockminerals Ltd.**

Machinery Photographs



Rotary Drier



Crusher



Nozzle Packing



Acid Tank

Project at a Glance

PROJECT AT A GLANCE

(` in lacs)

| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
|---------------------------------|-------------|----------------|----------------|------------------------------|-------------|----------------|----------------|
| Particulars | Existing | Proposed | Total | Particulars | Existing | Proposed | Total |
| Land & Site Development Exp. | 0.00 | 585.00 | 585.00 | Capital | 0.00 | 0.61 | 0.61 |
| Buildings | 0.00 | 1461.74 | 1461.74 | Share Premium | 0.00 | 0.00 | 0.00 |
| Plant & Machineries | 0.00 | 1995.00 | 1995.00 | Other Type Share | | | |
| Motor Vehicles | 0.00 | 16.00 | 16.00 | Capital | 0.00 | 0.00 | 0.00 |
| Office Automation Equipments | 0.00 | 1187.00 | 1187.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Technical Knowhow Fees & Exp. | 0.00 | 50.00 | 50.00 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Franchise & Other Deposits | 0.00 | 0.00 | 0.00 | Internal Cash Accruals | 0.00 | 0.00 | 0.00 |
| Preliminary & Pre-operative Exp | 0.00 | 10.00 | 10.00 | Long/Medium Term Borrowings | 0.00 | 6131.92 | 6131.92 |
| Provision for Contingencies | 0.00 | 200.00 | 200.00 | Debentures / Bonds Unsecured | 0.00 | 0.00 | 0.00 |
| Margin Money - Working Capital | 0.00 | 627.80 | 627.80 | Loans/Deposits | 0.00 | 0.00 | 0.00 |
| TOTAL | 0.00 | 6132.53 | 6132.53 | TOTAL | 0.00 | 6132.53 | 6132.53 |

Project at a Glance

| Year | Annualised | | Book Value | Debt | Dividend | Retained Earnings | | Payout | Probable Market Price | P/E Ratio | Yield Price/Book Value |
|------|------------|----------|------------|----------|----------|-------------------|-----------|--------|-----------------------|-----------|------------------------|
| | EPS | CEPS | | | | Per Share | Per Share | | | | |
| 1-2 | 23182.60 | 32888.09 | 23192.60 | 79992.00 | 0.00 | 100.00 | 23182.60 | 0.00 | 23182.60 | 1.00 | 0.00 |
| 2-3 | 31714.02 | 40195.93 | 54906.62 | 59994.00 | 0.00 | 100.00 | 31714.02 | 0.00 | 31714.02 | 1.00 | 0.00 |
| 3-4 | 40201.61 | 47621.79 | 95108.23 | 39996.00 | 0.00 | 100.00 | 40201.61 | 0.00 | 40201.61 | 1.00 | 0.00 |
| 4-5 | 48577.78 | 55075.90 | 143686.01 | 19998.00 | 0.00 | 100.00 | 48577.78 | 0.00 | 48577.78 | 1.00 | 0.00 |
| 5-6 | 56807.08 | 62503.75 | 200493.09 | 0.00 | 0.00 | 100.00 | 56807.08 | 0.00 | 56807.08 | 1.00 | 0.00 |

Project at a Glance

| Year | D. S. C. R. | | | Debt / Equity - Deposits Debt | Total Net Worth | Return on Net Worth | Profitability Ratio | | | | | Assets Turnover Ratio | Current Ratio |
|---------|-------------------|------------|---------|-------------------------------|-----------------|---------------------|---------------------|--------|--------|------------------|-----------|-----------------------|---------------|
| | Individual | Cumulative | Overall | | | | GPM | PBT | PAT | Net Contribution | P/V Ratio | | |
| Initial | (Number of times) | | | (Number of times) | % | % | % | % | % | % | | | |
| | | | | 9999.00 | 9999.00 | | | | | | | | |
| 1-2 | 1.41 | 1.41 | | 3.45 | 3.45 | 4.55 | 36.04% | 24.60% | 16.46% | 6298.69 | 72.91% | 1.10 | 1.07 |
| 2-3 | 1.70 | 1.55 | | 1.09 | 1.09 | 2.06 | 38.57% | 29.78% | 19.30% | 5988.22 | 59.42% | 0.98 | 1.32 |
| 3-4 | 2.05 | 1.71 | 2.05 | 0.42 | 0.42 | 1.06 | 40.29% | 33.50% | 21.40% | 6811.29 | 59.14% | 0.96 | 1.63 |
| 4-5 | 2.47 | 1.87 | | 0.14 | 0.14 | 0.61 | 41.47% | 36.22% | 22.99% | 7634.36 | 58.92% | 0.91 | 1.97 |
| 5-6 | 2.98 | 2.05 | | 0.00 | 0.00 | 0.38 | 42.27% | 38.25% | 24.20% | 8457.43 | 58.74% | 0.85 | 2.96 |

Project at a Glance

BEP

| | |
|---|---------------|
| BEP - Maximum Utilisation Year | 5 |
| Cash BEP (% of Installed Capacity) | 28.08% |
| Total BEP (% of Installed Capacity) | 32.21% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return .. (In %age) | 42.79% |
| Payback Period of the Project is (In Years) | After 2 Years |
| Fixed Assets Coverage Ratio (No. of times) | 4.319 |

Major Queries/Questions Answered in the Report?

- 1. What is Bentonite (Quarrying, Processing & Exporting) industry ?**
- 2. How has the Bentonite (Quarrying, Processing & Exporting) industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Bentonite (Quarrying, Processing & Exporting) Plant ?**
- 4. What are the requirements of Working Capital for setting up Bentonite (Quarrying, Processing & Exporting) plant ?**

- 5. What is the structure of the Bentonite (Quarrying, Processing & Exporting) Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Bentonite (Quarrying, Processing & Exporting) Business?**
- 7. What are the operating costs for setting up Bentonite (Quarrying, Processing & Exporting) plant ?**
- 8. What are the machinery and equipment requirements for setting up Bentonite (Quarrying, Processing & Exporting) plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bentonite (Quarrying, Processing & Exporting) plant ?**
- 10. What are the requirements of raw material for setting up Bentonite (Quarrying, Processing & Exporting) plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bentonite (Quarrying, Processing & Exporting) Business?**
- 12. What is the Plant Layout for setting up Bentonite (Quarrying, Processing & Exporting) Business?**

- 13. What is the total size of land required for setting up Bentonite (Quarrying, Processing & Exporting) plant ?**
- 14. What will be the income and expenditures for Bentonite (Quarrying, Processing & Exporting) Business?**
- 15. What are the Projected Balance Sheets of Bentonite (Quarrying, Processing & Exporting) 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 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. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Bentonite (Quarrying, Processing & Exporting).” provides an insight into Bentonite (Quarrying, Processing & Exporting) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Bentonite (Quarrying, Processing & Exporting) project. The report assesses the market sizing and growth of the Indian Bentonite (Quarrying, Processing & Exporting) 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 Bentonite (Quarrying, Processing & Exporting) sector in India along with its business prospects. Through this report we have identified Bentonite (Quarrying, Processing & Exporting) project as a lucrative investment avenue.

Tags

Bentonite Processing, Bentonite Processing Plant, Bentonite Clay Processing Plant, Bentonite Mining, Bentonite Processing Unit, Bentonite Processing and Production, Bentonite Mining and Processing, Industrial Minerals & Rocks, Bentonite Processing Factory, Mineral Processing, Bentonite Formula, Industrial Applications of Bentonite, Bentonite Applications, Uses and Applications of Bentonites, Uses of Bentonite in Construction, Bentonite Processing in Pharmaceutical Industry, Bentonite Processing Business Plan, Bentonite Processing Company, Bentonite Processing Business, Bentonite Processing Equipment, Cost of Bentonite Processing Plant, Bentonite Quarry Mining, Bentonite Quarry, Bentonite (Quarrying, Processing & Exporting), Bentonite Mining Process and Equipment, Bentonite Processing Feasibility Study, Project Report on Bentonite Processing Industry, Detailed Project Report on Bentonite Processing, Project Report on Bentonite Quarrying, Pre-Investment Feasibility Study on Bentonite Quarrying, Techno-Economic feasibility study on Bentonite Processing Plant, Feasibility report on Bentonite Quarrying, Free Project Profile on Bentonite Quarrying, Project profile on Bentonite Processing Plant, Download free project profile on Bentonite Processing Plant, Business Investment Opportunities in Bentonite (Quarrying, Processing & Exporting), Profitable Business Ideas in Clay and Minerals Industry

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NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

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- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *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



Contact us

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106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

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