

Roasted Bentonite Granules Manufacturing Industry. Bentonite Clay Granules. Bentonite Granules as Filler in Agro Chemicals

Introduction

Bentonite- is a highly colloidal clay mineral which gets its name from the place where its presence and usages were first discovered – Fort Benton, America. The multiple properties of bentonite namely hydration, swelling, water absorption, viscosity, thixotropy make it a multi-application product for diverse industries.



It is soft clay, it loosens the soil and allows air as well as other nutrients to reach the roots. If it is mixed with seed while sowing it softens the soil near the seed and helps the new roots to grow. On coming in contact with water it immediately allows the formulation to release in soil. It is a low cost but natural friendly product.

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 of Bentonite Granules as Filler in Agro Chemicals

- **They are bio degradable they break down into small particles slowly in the fields when it comes in contact of water.**
- **It also acts as a preservative of active ingredients. It saves the technical ingredients from the direct ultraviolet rays of sun. It does not react with the technical material because it is inert.**
- **As the raw clay used to make blank granules is soft by nature hence make the land softer and moist.**
- **Due to its hardness and high absorbent capacity while formulation it doesn't stick to the wall of blender/mixture or form cakes.**
- **It is in the form of granules so it's easy to apply in the field in wind condition and also on the standing crop. It can be mixed with Fertilizers OR seed before sowing.**

They are widely used as carrier in formulation of pesticides, herbicides, fungicides, bio-pesticides, Plant growth promoter and Bio-fertilizers. Apart from filler, it also benefit as natural soil conditioner.

The main uses of bentonite are for drilling mud, binder (e.g. foundry-sand bond, iron ore pelletizer), purifier, absorbent (e.g. pet litter), and as a groundwater barrier.



Useful for:

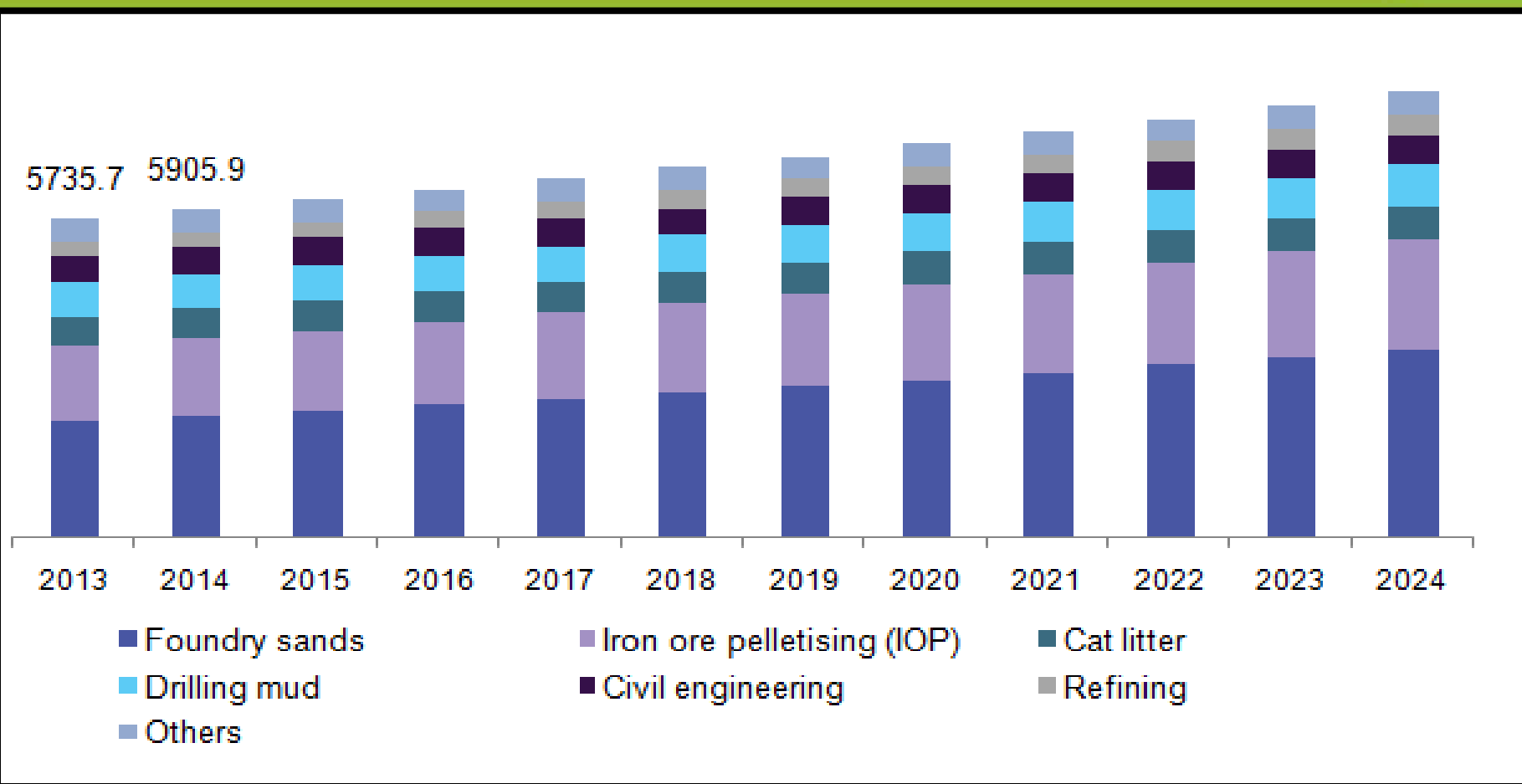
- Improving intestinal regularity
- Reliving chronic constipation
- As a medicine for diarrhea and indigestion
- Improving tissue and gum repair
- Increasing resistance to infections
- Eliminating anemia and acne

Bentonite clay has been gaining popularity in recent years as an internal and external cleanser for very good reasons. Bentonite clay is primarily composed of the mineral, montmorillonite which, if it contains sodium as an exchangeable ion, can swell up to six times its size when wet; this makes it the most adsorbent and absorbent of all the clays.

The company is well known in the market for the export and the supply of a wide range of products such as the Bentonite Clay which are high on demand in the market and they are used for a wide range of applications in the market and they are used for a wide range of applications in various industries and they have been priced at very reasonable rates in the market. The clay is manufactured using the best quality of raw materials in the market.



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

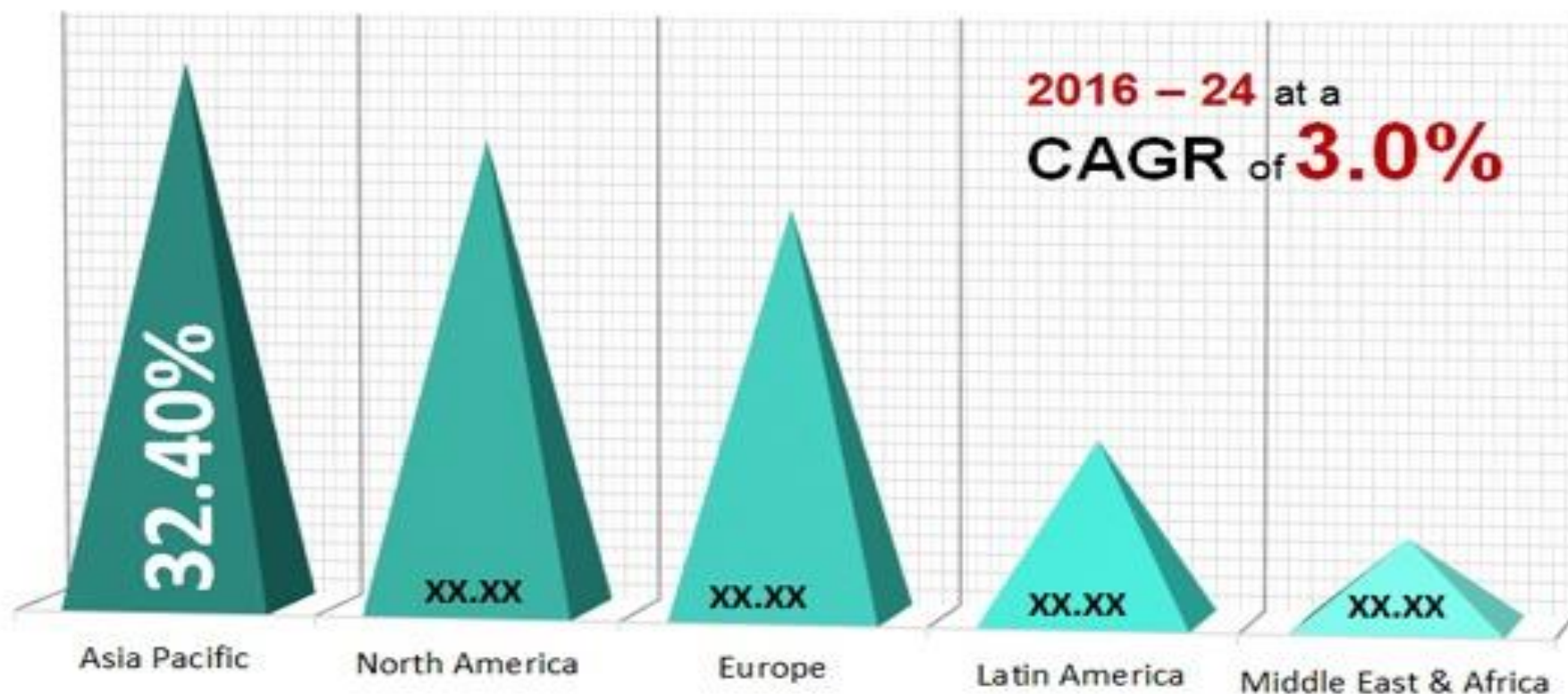


Bentonite is a highly colloidal clay mineral which contains a various minerals such as feldspar, quartz, gypsum and calcite. Properties such as water swelling, absorption, hydration and viscosity broaden the application scope of bentonite across a wide range of industries, such as food and pharmaceuticals. It finds its use in the manufacture of detergents, paints pharmaceuticals, cosmetics, polishes, dyes, animal feed and paper. For instance, it is used as a binding agent in the production of iron ore pellets and finds application in foundries. Also, based on application or use of finished product the mechanical and chemical properties of bentonite can be modified through various combinations and additions of raw materials.

Some of the major driving factors identified in the global bentonite market include rapid growth of the construction sector in emerging markets and Use of bentonite in treating and filtering water is also driving the growth of the market. In addition, government support to SMEs in this region is forecast to further boost growth of the market. However, stiff competition on account of substitute products and shrinking profit margin can impede the growth of the market. Increasing application of bentonite in landscaping and landfill as a geosynthetics clay liner (GCL) are the key trends in the market.



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



Bentonite is also used in many foundry applications such as sand casting applications. It is extensively employed as a green sand additive or binder in metal casting applications. Demand for bentonite is projected to increase significantly in the next few years considering the extensive growth of the green sand casting process. Asia Pacific dominates the bentonite market in terms of production and demand. Countries such as China, India, Japan, and South Korea are expected to be the key consumers of bentonite. North America is the second largest consuming region. Bentonite is also used as a major constituent of drilling fluids in oil & gas industry. The sluggish growth of the oil & gas industry has remarkably affected the bentonite market. This trend is anticipated to continue during the forecast period, and is therefore expected to unfavorably affect the market growth.

On the basis of product type, the global bentonite market is segmented into calcium, sodium, and others. Key end-use application segments include sealant, binder, clarification agent, drilling fluid, and absorbent/adsorbent. Oil, food, construction, foundry, and pharmaceuticals are the key end-use industries for the bentonite market. North America is the largest market for bentonite, while Asia Pacific is the fastest growing. The report analyses the global bentonite market in terms of value (US\$ Mn) and volume ('000 tonnes) by region, product type, end-use application and end-use industries, and provides insightful information regarding market dynamics, value chain, competitive landscape, current trends, market estimations and forecast.

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.

The leading players in the global market for bentonite are Minerals Technologies Inc., IMERYS SA, Clariant International Ltd., Ashapura Group, Bentonite Performance Minerals LLC, American Colloid Co., Canbensan, and Dantonit A/S.



Bulk of the resources i.e., 424 million tonnes (76%) are in Rajasthan, 134 million tonnes (24%) in Gujarat and the remaining in Tamil Nadu, Jharkhand and Jammu & Kashmir. About 9 million tonnes resources are placed under drilling fluid grade, 55 million tonnes under foundry grade and 19 million tonnes resources are placed under poor/blendable grades, respectively. Substantial quantity (485 million tonnes or 85%) of total resources is placed under 'unclassified' and 'not-known' categories.



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)

The Indian bentonite industry is expected to perform better in the coming years because of emerging demand for oil clarification and cat litter. The biggest market for bentonite in both North America and European countries are foundry, cat litter, iron ore pelletising and drilling. Civil engineering and environmental applications, such as landfills require bentonite for use as a sealant and lubricant.

Bentonite is among the exportable mineral commodities in India. Bentonite is exported both in unprocessed (crude) and processed (including activated) forms. Though, export of crude bentonite account for a higher quantity, the exports of processed bentonite fetch higher value than the crude bentonite. There is scope to establish bentonite processing granulation and paint-grade processed bentonite units in the country to meet the indigenous demand as well as demand in the international market.

Machinery Photographs



Forklift Feeder



Granulator



Screener



Cyclone

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propos ed	Total
Land & Site				Capital	0.00	111.34	111.34
Development Exp.	0.00	40.00	40.00	Share Premium	0.00	0.00	0.00
Buildings	0.00	251.60	251.60	Other Type Share			
Plant & Machineries	0.00	63.96	63.96	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	32.00	32.00	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	334.02	334.02
Preliminary& Pre-				Debentures /			
operative Exp	0.00	5.00	5.00	Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	5.40	5.40	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	22.40	22.40				
TOTAL	0.00	445.36	445.36	TOTAL	0.00	445.36	445.36

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	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`	s	%
1-2	5.43	9.22	15.43	24.00	0.00	100.00	5.43	0.00	5.43	1.00	0.00
2-3	8.33	11.70	23.76	18.00	0.00	100.00	8.33	0.00	8.33	1.00	0.00
3-4	11.17	14.17	34.93	12.00	0.00	100.00	11.17	0.00	11.17	1.00	0.00
4-5	13.91	16.58	48.84	6.00	0.00	100.00	13.91	0.00	13.91	1.00	0.00
5-6	16.55	18.93	65.39	0.00	0.00	100.00	16.55	0.00	16.55	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
								GPM	PBT	PAT	Net Contribution	P/V Ratio		
	Individual	Cumulative	Overall											
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.35	1.35		1.56	1.56	2.16		17.40%	9.79%	6.48%	364.00	39.01%	1.76	0.95
2-3	1.66	1.50		0.76	0.76	1.21		19.41%	13.24%	8.52%	422.11	38.77%	1.90	1.29
3-4	2.04	1.66	2.03	0.34	0.34	0.69		20.77%	15.69%	10.00%	482.35	38.77%	1.92	1.72
4-5	2.48	1.84		0.12	0.12	0.40		21.70%	17.46%	11.07%	542.59	38.77%	1.86	2.20
5-6	3.00	2.03		0.00	0.00	0.23		22.32%	18.73%	11.85%	602.83	38.76%	1.75	3.80

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	47.21%
Total BEP (% of Installed Capacity)	51.61%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	26.88%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	6.014

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Bentonite Clay Granules Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Bentonite Clay Granules Manufacturing Business?**
- 7. What are the operating costs for setting up Bentonite Clay Granules Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Bentonite Clay Granules Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bentonite Clay Granules Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Bentonite Clay Granules Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bentonite Clay Granules Manufacturing Business?**
- 12. What is the Manufacturing Process of Bentonite Clay Granules?**

- 13. What is the total size of land required for setting up Bentonite Clay Granules Manufacturing 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 Clay Granules.” provides an insight into Bentonite Clay Granules market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Bentonite Clay Granules project. The report assesses the market sizing and growth of the Indian Bentonite Clay Granules 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 Clay Granules sector in India along with its business prospects. Through this report we have identified Bentonite Clay Granules project as a lucrative investment avenue.

Tags

#Bentonite_Granule, #Granular_Bentonite, #Bentonite_Granules_Production, #Bentonite_Granules_Manufacture, #Processed_Bentonite_Granules, Bentonite Granules Processing, Bentonite Granules Processing Plant, Bentonite Granules Making Business, Bentonite Processing Plant, Bentonite Granules Uses, Bentonite Granules Manufacturing Process, #Bentonite_Processing, Bentonite Clay, #Bentonite_Granules_as_Filler_in_Agro_Chemicals, Roasted Bentonite Granules, Bentonite Granules Uses in Agriculture, Agricultural Bentonite, Fertilizer Grade Bentonite Manufacture, Roasted Bentonite Granules Manufacture, Bentonite Granule Manufacturing, #Project_Report_on_Bentonite_Clay_Granules_manufacturing_Industry, Detailed Project Report on Bentonite Clay Granules, Project Report on Bentonite Granule Manufacturing, Pre-Investment Feasibility Study on Bentonite Processing, Techno-Economic feasibility study on Bentonite Granule Manufacturing, Feasibility report on Bentonite Granule Manufacturing, #Free_Project_Profile_on_Bentonite_Processing, Project profile on Bentonite Granules, Download free project profile on Bentonite Clay Granules, #Roasted_Bentonite_Granules_Manufacturing_Industry, Bentonite Clay Granules, Bentonite Granules as Filler in Agro Chemicals

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Free Instant Online Project Identification and Selection Service

Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)



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Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the 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**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as 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, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

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 India along with its business prospects.....[Read more](#)



Contact us

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Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *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.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *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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