



# Want to Start Business of Silica Gel Crystal & Beads

Here are Good Profitable opportunities &  
Business Ideas in Production of Silica Gel  
Crystal & Beads.

Crystal & Beads.

Business Ideas in Production of Silica Gel

Here are Good Profitable opportunities &

# Introduction

**Silica gel is a porous amorphous shape of silicon dioxide (silica), made up of an irregular tridimensional structure of alternating silicon and oxygen atoms with nanometer-scale voids and pores. Water or other liquids could fill the voids, or gas or vacuum could fill them. The material is called silica xerogel in this case.**



**Silica is another term for silicon dioxide, a molecule made up of one silicon atom and two oxygen atoms that is one of the most common elements on the planet. Silicon dioxide is often found in sand, and quartz is a common crystal type of it. It's also used to make glass. The high specific surface area of silica gel (around 750–800 m<sup>2</sup>/g) helps it to readily adsorb water, making it a useful desiccant (drying agent).**

**When the microscopic structure of silica gel is overlooked, as in silica gel packs or other items, the term "absorbing" moisture may be acceptable. Material silica gel, on the other hand, absorbs moisture by adsorption onto the surface of its various pores rather than absorption through the gel's mass. With normal use, silica gel is non-toxic, non-flammable, non-reactive, and stable.**





**Hydrogen fluoride, fluorine, oxygen difluoride, chlorine trifluoride, strong acids, strong bases, and oxidizers can all react with it. . The consistency of 'wet' silica gel, as prepared from alkali silicate solutions, can range from a soft transparent gel, similar to gelatin or agar, to a hard solid, such as a water-logged xerogel. It's often used in laboratory processes to prevent suspended particles from settling or to inhibit convection in liquids.**

**Silica gel is an amorphous, inorganic polymer made by condensation of silicate tetrahedrons with oxygen as the binding site, resulting in the siloxane bond (Si-O-Si) and, eventually, nanometer-sized particles. Silica Gel is a highly activated adsorbent that comes in a variety of mesh sizes to meet the needs of different industrial applications. It's non-toxic, non-corrosive, tasteless, odorless, chemically inert, and non-toxic.**

**Silica gel is a porous silica gel with a wide internal surface area. During adsorption, the silica gel does not undergo any chemical reactions and hence does not produce any byproducts. It's also non-deliquescent, meaning it won't change size or shape even after absorbing a lot of moisture. Furthermore, even though soaked with sweat, the silica gel stays dry and free-flowing.**

# **Uses of Silica Gel & Crystal Beads**

**The most famous is Silica Gel, which is used for its high absorption quality and wide surface area. Silica Gel comes in a variety of shapes and sizes, including beads, balls, and granules. Silica Gel beads are often packaged with other products such as shoes, electronics, clothing, and snacks. They consume all of the excess moisture present in the closed spaces, ensuring that the packaged goods are not harmed by moisture.**



**Silica gel is also used as cat litter, either alone or in conjunction with more conventional materials including clays and bentonite. It is non-tracking and virtually odorless. When filled in a jar with a RH above 20%, silica gel helps to protect the medication from the effects of moisture. It is known to work best when the relative humidity is high.**



**In museum and library displays and storage, silica gel is often used as a preservation method to monitor relative humidity. As a dehumidifier, Silica Gel plays a critical role. Silica Gel dehumidifiers are commonly used in a variety of industries for moisture and water drying. These include oil and natural gas, air conditioners, food processing, electronic goods, and pharmaceuticals.**

**Silica Gel has the following benefits:**

- 1. It is non-flammable.**
- 2. Reusable by regenerating the gel—heating the gel prevents absorptions.**
- 3. It has the ability to withstand up to 40% of its own weight.**



**4. If kept airtight, the shelf life is infinite.**

**5. It is non-corrosive and will not cause material disruption.**

**6. it's easy to pack and comes in a variety of sizes for different applications.**



# Manufacturing Process

**A process for producing silica gel that includes burning the husk of a grain to produce burned ash, charging the burned ash in a strongly alkaline aqueous solution containing an alkali metal compound, agitating, and heating the mixture to produce a liquid mixture, then separating the mixture into an ash and a filtrate,...**



**...steaming the ash with hydrochloric acid to create activated carbon as a by-product, quickly cooling the filtrate to precipitate a solid, admixing the solid with an acid and heating the resulting mixture, separating the mixture into a solid product and a liquid, washing the solid product with water and drying to produce a high purity silica gel.**



**The method allows for the development of a high purity silica gel from the husk of a grain that is processed in large quantities and is treated as a waste, using a simple process that primarily involves heating with an aqueous solution and cooling quickly. Manufacturer of synthetic amorphous silica, a tasteless, colorless, and odorless type of silicon dioxide.**



**The term silica-gel comes from the manufacturing process used to create this material, sol-gel. To produce monomeric silicic acid, two raw materials, sodium silicate and mineral acid, are combined in a wet process. These monomers polymerize to form silica sol, which is a type of primary silica particle.**



**These particles then clump together to form a three-dimensional gel structure with a low refractive index of 1.46. Development conditions affecting primary particles (sizes 3-30nm) are regulated during this phase to change physical properties including surface area, pore diameter, and pore volume.**



# Market Outlook

**Over 2030, the global silica gel market is expected to develop at a CAGR of 3.5 percent. The silica gel market is highly fragmented and competitive globally. Silica gel is a hazy type of silicon dioxide that is synthesized in the form of firm irregular granules that resemble crystals or hard normal beads. Silica Gel is a popular desiccant and adsorbent that is used in a variety of industrial and consumer applications.**



**Silica has become a part of everyday life for consumers, and it can be used in a variety of applications. Silica Gel is a highly activated adsorbent that comes in a variety of mesh sizes to meet the needs of different industrial applications. It's non-toxic, non-corrosive, tasteless, odourless, chemically inert, and non-toxic. Silica gel is a porous silica gel with a wide internal surface area.**

**During adsorption, the silica gel does not undergo any chemical reactions and hence does not produce any byproducts. Silica gel is widely used in pharmaceutical packaging to shield pharmaceuticals from moisture and other contaminants. Since the demand for silica gel varies depending on its application, the market for it can be segmented. The market can be segmented accordingly, and growth in either sector would increase silica gel demand.**

# Key Players

- **B A S F India Ltd.**
- **Clariant Chemicals (India) Ltd.**
- **Evonik Catalysts India Pvt. Ltd.**
- **Multisorb Technologies India Pvt. Ltd.**
- **Thermo Fisher Scientific India Pvt. Ltd.**

# Machinery Photographs



**REACTOR**



**FILTERS**





**DRYER**



**ION EXCAHNGE**



# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	15.00	15.00	Capital	0.00	23.50	23.50
Buildings	0.00	25.70	25.70	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	22.75	22.75	Other Type Share			
Motor Vehicles	0.00	0.00	0.00	Capital	0.00	0.00	0.00
Office Automation Equipments	0.00	11.00	11.00	Reserves & Surplus	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	5.00	5.00	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	2.00	2.00	Long/Medium Term Borrowings	0.00	70.49	70.49
Provision for Contingencies	0.00	1.78	1.78	Debentures / Bonds	0.00	0.00	0.00
Margin Money - Working Capital	0.00	10.76	10.76	Unsecured Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	93.99	93.99	TOTAL	0.00	93.99	93.99

# 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	
	、	、	、	、	、	%	、	%	、		%
1-2	5.39	8.78	15.39	24.00	0.00	100.00	5.39	0.00	5.39	1.00	0.00
2-3	9.16	12.16	24.56	18.00	0.00	100.00	9.16	0.00	9.16	1.00	0.00
3-4	12.73	15.38	37.29	12.00	0.00	100.00	12.73	0.00	12.73	1.00	0.00
4-5	16.03	18.38	53.32	6.00	0.00	100.00	16.03	0.00	16.03	1.00	0.00
5-6	19.03	21.12	72.36	0.00	0.00	100.00	19.03	0.00	19.03	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
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%		%		
Initial				3.00	3.00									
1-2	1.32	1.32		1.56	1.56	2.43		16.76 %	7.25%	4.92%	144.65	56.20 %	2.15	1.07
2-3	1.75	1.53		0.73	0.73	1.36		19.42 %	11.06%	7.17%	162.33	54.06 %	2.27	1.35
3-4	2.24	1.75	2.21	0.32	0.32	0.79		21.15 %	13.65%	8.72%	185.37	54.01 %	2.24	1.72
4-5	2.77	1.97		0.11	0.11	0.48		22.25 %	15.38%	9.76%	208.40	53.98 %	2.12	2.15
5-6	3.37	2.21		0.00	0.00	0.30		22.88 %	16.48%	10.43 %	231.44	53.95 %	1.97	3.34

## BEP

<b>BEP - Maximum Utilisation Year</b>	<b>5</b>
<b>Cash BEP (% of Installed Capacity)</b>	<b>66.87%</b>
<b>Total BEP (% of Installed Capacity)</b>	<b>68.99%</b>

## IRR, PAYBACK and FACR

<b>Internal Rate of Return .. ( In %age )</b>	<b>28.73%</b>
<b>Payback Period of the Project is ( In Years )</b>	<b>2 Years 3 Months</b>
<b>Fixed Assets Coverage Ratio ( No. of times )</b>	<b>8.361</b>

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



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

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

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

# Tags

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**NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.**

**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:**

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- **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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# **Niir PROJECT CONSULTANCY SERVICES**

**AN ISO 9001: 2015 CERTIFIED COMPANY**

## 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**

## **Who do we Serve?**

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- 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
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling

## **Sectors We Cover** *Cont...*

- 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



## Sectors We Cover *Cont...*

- Copper & Copper Based Projects
- Dairy/Milk Processing
- 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

## Sectors We Cover *Cont...*

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

## Sectors We Cover

*Cont...*

- 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.

## Sectors We Cover *Cont...*

- 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.

## Sectors We Cover *Cont...*

- 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

## **Sectors We Cover** *Cont...*

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



# MARKET RESEARCH REPORTS

## Objective

- ∞ To get a detailed scenario of the industry along with its structure and classification
- ∞ To provide a comprehensive analysis of the industry by covering aspects like:
  - ∞ Growth drivers of the industry
  - ∞ Latest market trends
  - ∞ Insights on regulatory framework
  - ∞ SWOT Analysis
  - ∞ Demand-Supply Situation
  - ∞ Foreign Trade
  - ∞ Porters 5 Forces Analysis

## Objective

- ⌘ To provide forecasts of key parameters which helps to anticipate the industry performance
- ⌘ To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ⌘ To help an entrepreneur/manager in keeping abreast with the changes in the industry
- ⌘ To evaluate the competitive landscape of the industry by detailing:
  - ⌘ Key players with their market shares
  - ⌘ Financial comparison of present players

## **Clientele**

- ⌘Venturist/Capitalists
- ⌘Entrepreneur/Companies
- ⌘Industry Researchers
- ⌘Investment Funds
- ⌘Foreign Investors, NRI's
- ⌘Project Consultants/Chartered Accountants
- ⌘Banks
- ⌘Corporates

**[Click here for list](#)**

# Data Sources



# Scope & Coverage





## **Our Team**

- ⌘ Our research team comprises of experts from various financial fields:
- ⌘ MBA's
- ⌘ Industry Researchers
- ⌘ Financial Planners
- ⌘ Research veterans with decades of experience

## Structure of the Report

- 1. Overview
- 2. Market Analysis
  - 2.1 Growth Drivers
  - 2.2 Emerging Trends in the Industry
  - 2.3 Regulatory Framework
  - 2.4 SWOT Analysis
  - 2.5 Herfindahl–Hirschman Index (HHI)
- 3. Market Forecasts
- 4. Key Players

# Structure of the Report

*Cont*

- ⌘5. Key Financials and Analysis
  - ⌘5.1 Contact Information
  - ⌘5.2 Key Financials
  - ⌘5.3 Financial comparison
- ⌘6. Industry Size & Outlook

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# Contact us

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The background of the slide is a dark teal color. On the left side, there is a large, stylized 'X' pattern made of thick, dark lines. The 'X' is composed of four diamond shapes. The top-left and bottom-right diamonds are filled with a light blue sky and white clouds. The top-right and bottom-left diamonds are filled with a dark blue, textured background. The text 'THANK YOU' is written in large, white, sans-serif capital letters on the right side of the slide.

# THANK YOU

**For more information, visit us at:**

**[www.niir.org](http://www.niir.org)**

**[www.entrepreneurindia.co](http://www.entrepreneurindia.co)**