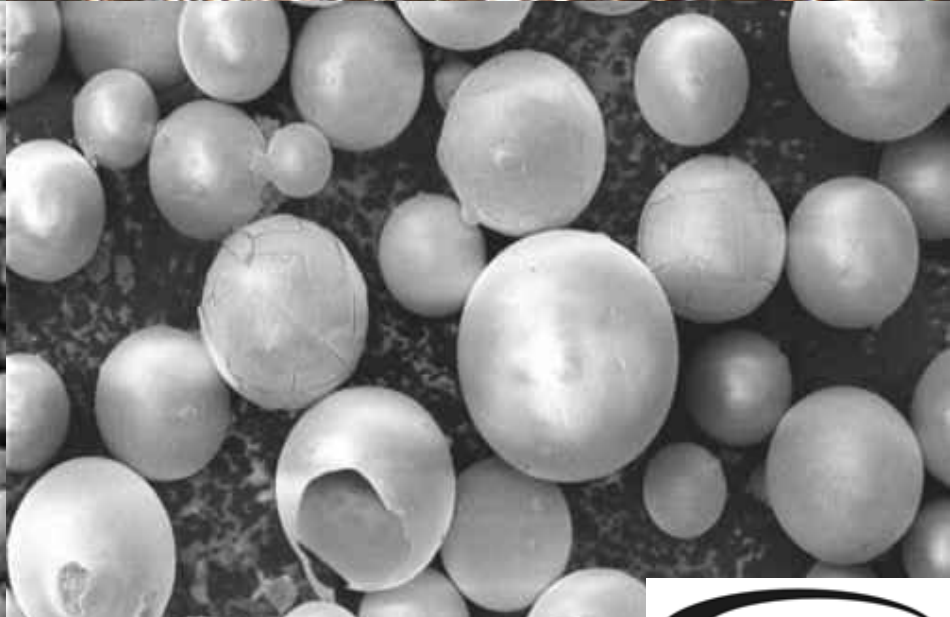
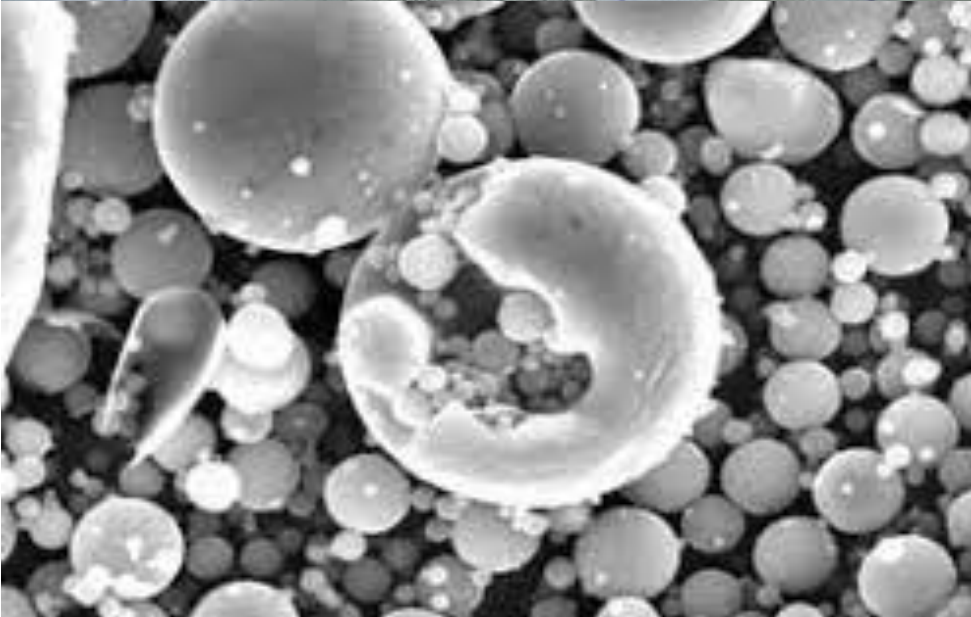
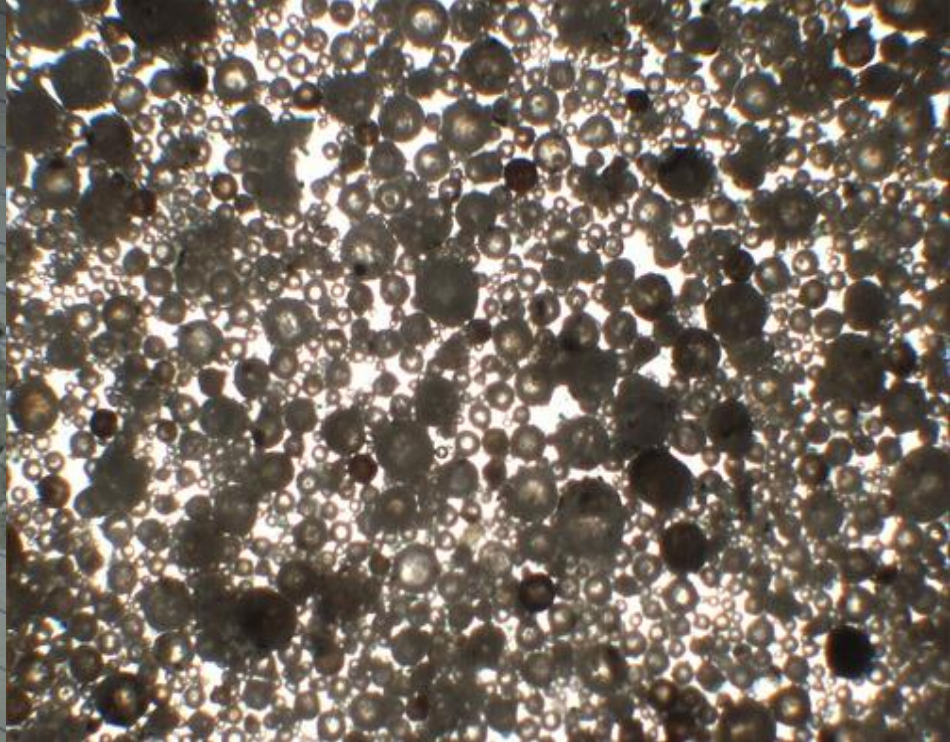


Cenosphere Processing Plant.

**Cenosphere Separation from Fly
Ash.**

**Production of Cenospheres from
Coal Fly Ash.**



Introduction

Cenospheres are inert, light weight and hollow spheres particularly made of alumina or silica and filled with inert gases or air. They are typically manufactured as a by-product of coal combustion in the thermal power plants. Cenospheres are hollow, low-density, spherical, and free-flowing aluminosilicate microspheres that are produced as a by-product of coal ignition at the coal-fired power plants. It is a rich-in-ceramic industrial waste formed at the time of coal combustion in the thermal power plants.

Inside the each sphere there is a near vacuum that produces good properties of thermal and acoustic insulation making a product ideal for automotive acoustic insulation applications where the mass is a major factor to be considered. These spheres are used globally in several automotive application including tyres, brake linings, friction linings, dashboard, and clutch facings. The broad range of usage has increased the demand of cenosphere suppliers India in the industry.

Cenospheres, the high strength, small sized, lightweight, non-porous, free flowing, hollow ceramic spheres produced in coal fired thermal power plants during the burning of lignite or coal at very elevated temperatures, find extensive usage across a number of industries owing to their physical properties. Cenospheres find usage as fillers in a number of applications, replacing resins and minerals and imparting diverse benefits such as reduced shrinkage, improved level of thermal insulation, weight reduction, improved level of fire resistance, and easier application.

Uses of Cenosphere:

Cenospheres in Paints and Coatings

There are a great many uses for cenospheres in the paint and industrial coating industry, due to the additional qualities they provide. For example, cenospheres are often used in coatings to control infrared radiation, giving those coatings an advantage over ones that merely attempt to limit thermal conductivity.

Cenospheres in Syntactic Foams

Cenospheres are often used to make 'syntactic foams'. These are specialized solids which use cenospheres as a filler to provide any number of advantages, from lower cost, to added strength, sound proofing, buoyancy and thermal protection.

Cenospheres in Plastics and Polymers

Cenospheres also have a use in the manufacture of plastics and polymers, as their re-formable shape or strength helps to avoid shrinkage in thermoplastics and thermosetting plastics.

Cenospheres in Pharmaceuticals

Cenospheres have been used in the pharmaceutical industry for many years, as the small balls can act as a near-perfect transport device when coated with drugs.

Cenospheres in Advanced Industries

Cenospheres are also being used in the development of metal matrix composites (MMC), a variety of materials that attempts to combine the high energy absorption, impact resistance, and low density of the spheres with the qualities of other substances.

Market Outlook

Cenospheres are providing emerging opportunities along with the future effects of major drivers and challenges that support the managers to make cost-effective decisions in favor of the business. The increasing demand from end-use industries including refractory, construction, paints and coatings, and oil and gas, which is expected to take the market to the next level in the near future. However, restricted sources of raw material and deficiency of quality control across developing countries are key factors that may restrain the growth of the industry.

The global cenospheres market was valued at USD 346.8 Million in 2016 and is projected to reach USD 689.2 Million by 2022, at a CAGR of 12.16% from 2017 to 2022. The growing demand from end-use industries, such as paints & coatings, refractory, construction, and oil & gas is expected to drive the market in near future. However, limited sources of raw material and lack of quality control across emerging countries are major factors that may restrain the growth of the market.

The Gray Cenospheres segment is estimated to experience the highest growth in the upcoming years because of its wide uses across the industrial segment. The demand will increase also because the gray cenosphere is produced more frequently as compared to the white cenosphere in fly ash. The demand for gray cenosphere suppliers India is rising because they deliver quality material which contains a low content of alumina and is high in silica and iron content that is used in a number of applications such as plastics, concretes, coatings, resins, bricks, and rubbers.

The gray cenospheres segment is expected to witness the highest growth from 2017 to 2022, as they are widely used across industries. Gray cenospheres occur more frequently than white cenospheres in fly ash. These cenospheres have low content of alumina and high content of silica and iron. Gray cenospheres are used in various applications, such as concretes, plastics, resins, coatings, bricks, and rubbers.

North America is projected to be the fastest-growing cenospheres market during the forecast period, due to the growing oil & gas and automotive industries in the region. The market in Middle East & Africa, Asia-Pacific, and South America is also expected to witness significant growth, due to growing demand for cenospheres from the oil & gas and construction industries in these regions.

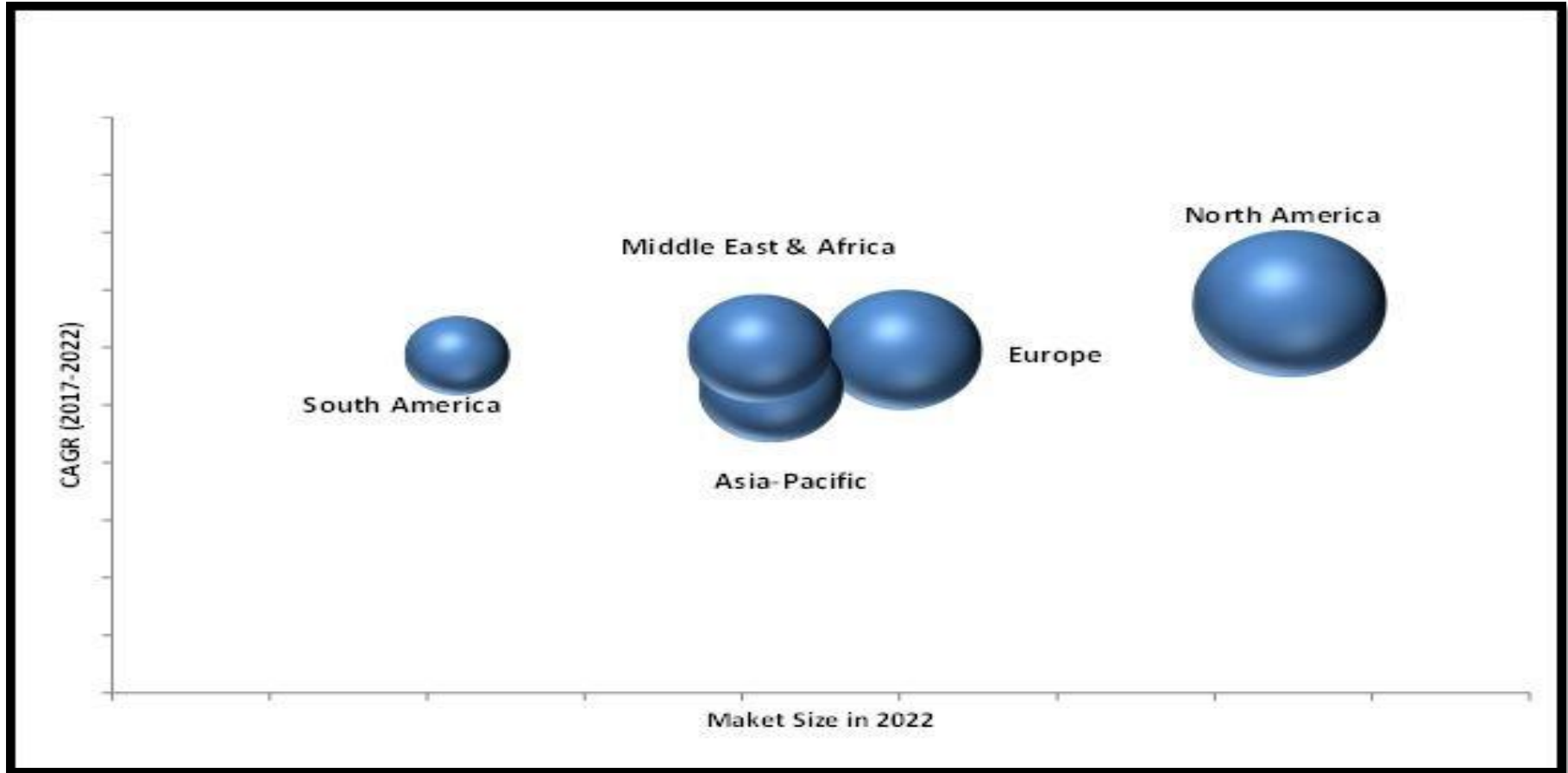
Industries such as oil and gas, building, plastics, aerospace, automotive, and surface coating continue to be some of the leading consumers of cenospheres and new application areas are being devised at an encouraging pace.

Owing to their natural properties, cenospheres can be used in forms such as dry, wet, or slurry. Owing to their inert nature, cenospheres are not affected by acids, alkalis, water, or solvents. Hence, cenospheres have an impressive reusability quotient. Cenospheres are nearly 30% lighter than conventionally used resins and nearly 75% lighter than most minerals used as fillers or extenders.

The main application of cenospheres as bulk fillers in all the end-user industries is expected to act as catalysts for the growth of the overall cenospheres market over the forecast period.

Moreover, as cenospheres are small in size and have great compressive strength they are used as a structural lightweight filler, thus the cenospheres market is expected to see rapid growth in all developed and developing countries in the future.

Cenosphere Market, by Region, 2022 (USD Million)



The cenospheres market can be segmented

as:

- **Automotive**
- **Construction**
- **Oil & Gas**
- **Paints & Coating**
- **Others (Refractory, Bulk Fillers, Etc.)**

Cenospheres find a wide range of applications in the construction, oil & gas and infrastructure industry and are used in commercial, industrial, residential and infrastructure construction projects. The growing construction industry output is expected to be one of the most significant factors for increased demand of cenospheres in the global market. Rapid urbanisation is leading to new construction activities, which is further expected to boost the demand of cenospheres in building and construction tasks. Moreover, growing urbanisation is expected to contribute to the growth of the global cenospheres market at a CAGR close to or below the global GDP growth over the forecast period. The market is becoming healthier for competitions, which is a positive factor influencing the cenospheres manufacturers.

The growth of technology and automation in the manufacturing and supply of all automobiles has further increased its attractiveness among the consumers and all end-use industries. Prominent market players are trying to develop strong, long-lasting and lightweight cenospheres for all the vehicles in the automotive industry, which can be used efficiently and sustain load depending on the vehicle type. The advancement in the material science technologies in the manufacturing industries have enabled them to use new invented materials, such as alloys of steel and aluminium, which make the cenospheres of the vehicles stronger and durable under extreme load conditions.

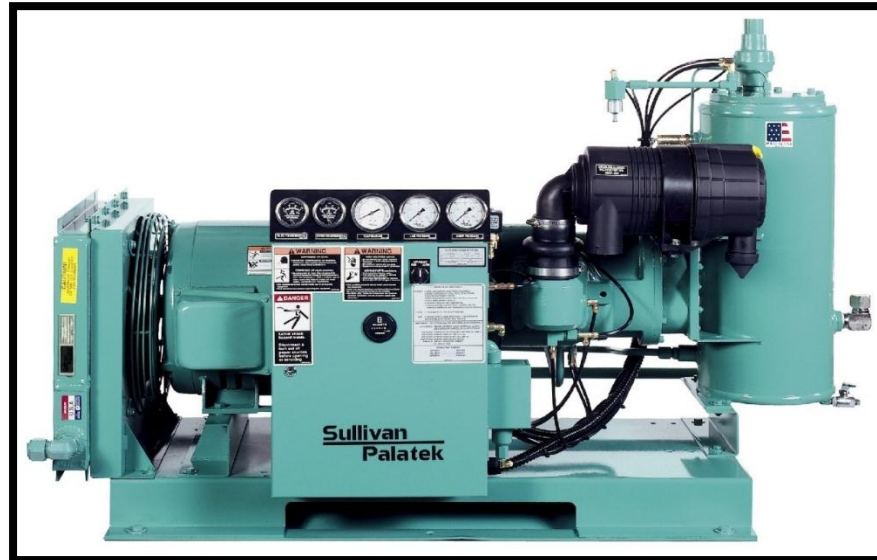
Machinery Photographs



PULVERIZER



STORAGE TANKS



AIR COMPRESSOR



COOLING TOWER



VACCUM PUMP



TRIBO ELECTRIC SEPARATOR

Project at a Glance

| PROJECT AT A GLANCE | | | | (Rs. in lacs) | | | |
|---------------------------------|-------------|---------------|---------------|-----------------------------|-------------|---------------|---------------|
| COST OF PROJECT | | | | MEANS OF FINANCE | | | |
| Particulars | Existing | Proposed | Total | Particulars | Existing | Proposed | Total |
| Land & Site Development Exp. | 0.00 | 35.00 | 35.00 | Capital | 0.00 | 52.09 | 52.09 |
| Buildings | 0.00 | 41.00 | 41.00 | Share Premium | 0.00 | 0.00 | 0.00 |
| Plant & Machineries | 0.00 | 57.50 | 57.50 | Other Type Share Capital | 0.00 | 0.00 | 0.00 |
| Motor Vehicles | 0.00 | 5.00 | 5.00 | Reserves & Surplus | 0.00 | 0.00 | 0.00 |
| Office Automation Equipments | 0.00 | 41.00 | 41.00 | Cash Subsidy | 0.00 | 0.00 | 0.00 |
| Technical Knowhow Fees & Exp. | 0.00 | 15.00 | 15.00 | Internal Cash Accruals | 0.00 | 0.00 | 0.00 |
| Franchise & Other Deposits | 0.00 | 0.00 | 0.00 | Long/Medium Term Borrowings | 0.00 | 156.27 | 156.27 |
| Preliminary & Pre-operative Exp | 0.00 | 3.00 | 3.00 | Debentures / Bonds | 0.00 | 0.00 | 0.00 |
| Provision for Contingencies | 0.00 | 5.25 | 5.25 | Unsecured Loans/Deposits | 0.00 | 0.00 | 0.00 |
| Margin Money - Working Capital | 0.00 | 5.61 | 5.61 | | | | |
| TOTAL | 0.00 | 208.36 | 208.36 | TOTAL | 0.00 | 208.36 | 208.36 |

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 | | | | | |
| | Rs | Rs | Rs | Rs | Rs | % | Rs | % | Rs | No.of Times | % |
| 1-2 | 5.38 | 9.20 | 15.38 | 24.00 | 0.00 | 100.00 | 5.38 | 0.00 | 5.38 | 1.00 | 0.00 |
| 2-3 | 8.12 | 11.48 | 23.50 | 18.00 | 0.00 | 100.00 | 8.12 | 0.00 | 8.12 | 1.00 | 0.00 |
| 3-4 | 10.80 | 13.77 | 34.30 | 12.00 | 0.00 | 100.00 | 10.80 | 0.00 | 10.80 | 1.00 | 0.00 |
| 4-5 | 13.40 | 16.04 | 47.70 | 6.00 | 0.00 | 100.00 | 13.40 | 0.00 | 13.40 | 1.00 | 0.00 |
| 5-6 | 15.91 | 18.25 | 63.60 | 0.00 | 0.00 | 100.00 | 15.91 | 0.00 | 15.91 | 1.00 | 0.00 |

Project at a Glance

| Year | D. S. C. R. | | | Debt / - Deposits Debt | Equity as- Equity | Total Net Worth | Retu rn on Net Wort h | Profitability Ratio | | | | | Assets Turnov er Ratio | Curre nt Ratio |
|---------|-------------------|----------------|-------------|---------------------------------|-------------------------|-----------------------|-----------------------------------|---------------------|--------|------------|-------------------------|--------------|---------------------------------|----------------------|
| | Individ ual | Cumula tive | Overa ll | | | | | GPM | PBT | PAT | Net Contri bution | P/V Ratio | | |
| | (Number of times) | | | (Number of times) | | % | % | % | % | % | % | | | |
| Initial | | | | 3.00 | 3.00 | | | | | | | | | |
| 1-2 | 1.34 | 1.34 | | 1.56 | 1.56 | 1.74 | | 34.87 % | 19.81% | 13.72 % | 155.8 1 | 76.20 % | 0.99 | 0.80 |
| 2-3 | 1.64 | 1.48 | | 0.77 | 0.77 | 0.90 | | 38.94 % | 27.05% | 17.72 % | 181.7 8 | 76.20 % | 1.08 | 1.41 |
| 3-4 | 1.99 | 1.64 | 1.98 | 0.35 | 0.35 | 0.45 | | 41.68 % | 32.16% | 20.63 % | 207.7 4 | 76.20 % | 1.09 | 2.20 |
| 4-5 | 2.40 | 1.80 | | 0.13 | 0.13 | 0.21 | | 43.52 % | 35.81% | 22.76 % | 233.7 1 | 76.20 % | 1.05 | 3.16 |
| 5-6 | 2.90 | 1.98 | | 0.00 | 0.00 | 0.07 | | 44.74 % | 38.43% | 24.31 % | 259.6 8 | 76.20 % | 0.98 | 10.05 |

Project at a Glance

BEP

| | |
|---|-------------|
| BEP - Maximum Utilisation Year | 5 |
| Cash BEP (% of Installed Capacity) | 44.86% |
| Total BEP (% of Installed Capacity) | 49.56% |
| IRR, PAYBACK and FACR | |
| Internal Rate of Return .. (In %age) | 25.66% |
| Payback Period of the Project is (In Years) | 2.814 Years |
| Fixed Assets Coverage Ratio (No. of times) | 2.799 |

Major Queries/Questions Answered in the Report?

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

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



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Cenosphere Processing plant ?

10. What are the requirements of raw material for setting up Cenosphere Processing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Cenosphere Processing Business?

12. What is the Manufacturing Process of Cenosphere ?



- 13. What is the total size of land required for setting up Cenosphere Processing plant ?**
- 14. What will be the income and expenditures for Cenosphere Processing Business?**
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- 17. What is the Built up Area Requirement and cost for setting up Cenosphere Processing Business?**

18. What are the Personnel (Manpower) Requirements for setting up Cenosphere Processing Business?

19. What are Statistics of Import & Export for Cenosphere ?

20. What is the time required to break-even of Cenosphere Processing Business?

21. What is the Break-Even Analysis of Cenosphere Processing plant?

22. What are the Project financials of Cenosphere Processing Business?



- 23. What are the Profitability Ratios of Cenosphere Processing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Cenosphere Processing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Cenosphere Processing 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 Cenosphere” provides an insight into Cenosphere market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Cenosphere project. The report assesses the market sizing and growth of the Indian Cenosphere 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 Cenosphere sector in India along with its business prospects. Through this report we have identified Cenosphere project as a lucrative investment avenue.

Tags

Cenosphere Processing, Cenosphere Processing Plant, Cenospheres from Fly Ash, Cenosphere Processing Project, Fly Ash to Cenospheres Process, Cenosphere Manufacturing Process, Cenosphere Separation from Fly Ash, Cenosphere Manufacture, Production of Cenospheres, Cost Of Manufacturing Plant for Cenosphere, Production of Cenospheres from Fly Ash, Separation of Cenosphere from Fly Ash, Cenosphere Manufacturing, Lightweight Cenosphere Processing, Cenosphere Production, Cenosphere Manufacturing Plant, Cenosphere Manufacturing Company, Cenospheres Industry, Cenosphere Processing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas,

Cenosphere Processing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Cenosphere Processing Industry in India, Cenosphere Processing Projects, New project profile on Cenosphere Processing industries, Project Report on Cenosphere Processing Industry, Detailed Project Report on Cenosphere Processing, Project Report on Cenosphere Processing, Pre-Investment Feasibility Study on Cenosphere Processing, Techno-Economic feasibility study on Cenosphere Processing, Feasibility report on Cenosphere Processing, Free Project Profile on Cenosphere Processing, Project profile on Cenosphere Processing, Download free project profile on Cenosphere Processing, Industrial Project Report

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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.



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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](#)



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Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

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

NIIR PROJECT CONSULTANCY SERVICES

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