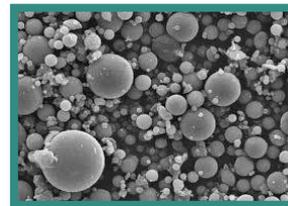
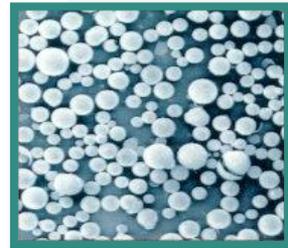
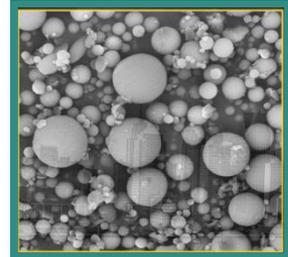


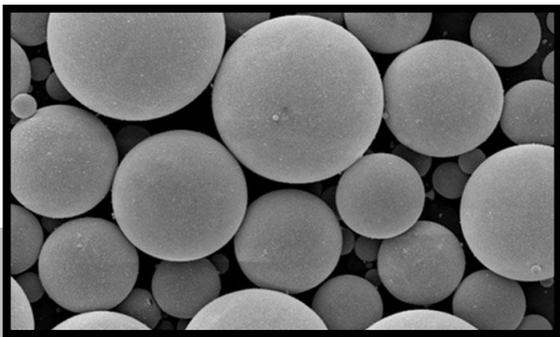
**Cenosphere from Fly Ash.**  
**High Value Added Product**  
**from Coal Fly Ash.**  
**Cenosphere Processing**  
**Industry**



# Introduction

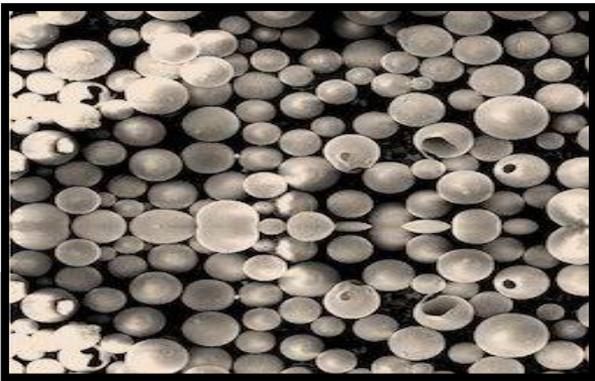
**Cenospheres, also sometimes called microspheres, are used in a wide variety of materials, from paints and finishes to plastics and caulking. And although they have been used in concrete for some time, their use is not widely known.**

**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.**

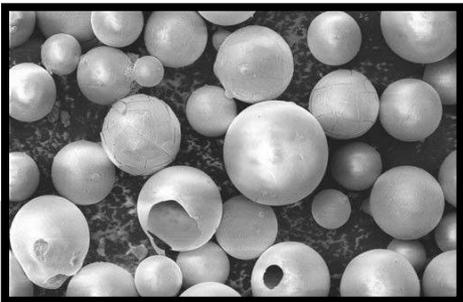


**Cenospheres find usage as fillers in a number of applications, replacing resins and minerals and imparting diverse benefits such as reduced shrinkage, improved level of thermal insulation, weight reduction, improved level of fire resistance, and easier application.**

**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.**



**The chief application of the cenosphere is as a filter in all the end-use industries in the universal market. Cenospheres are increasingly used as a filter in the construction industry, particularly in the production of cement to produce low-density concrete. Recently, several manufacturers have started filling cenospheres with polymers and metals to make lightweight composite materials with greater strength as compared to the foam materials. These composite materials are called as syntactic foams. Cenospheres filled with aluminium are finding various applications in the automotive industries. Likewise, silver-coated cenospheres are used in the fabrics, tiles and conductive coatings for electromagnetic shielding and antistatic coatings.**

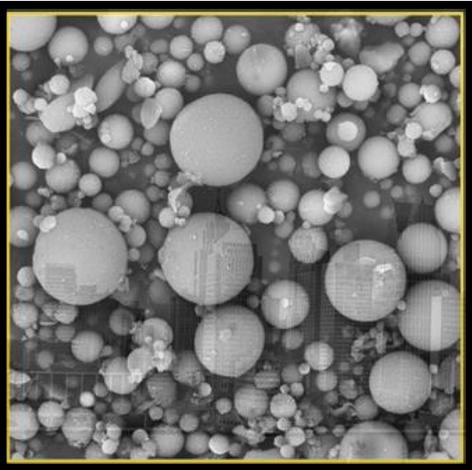


## **Market Outlook**

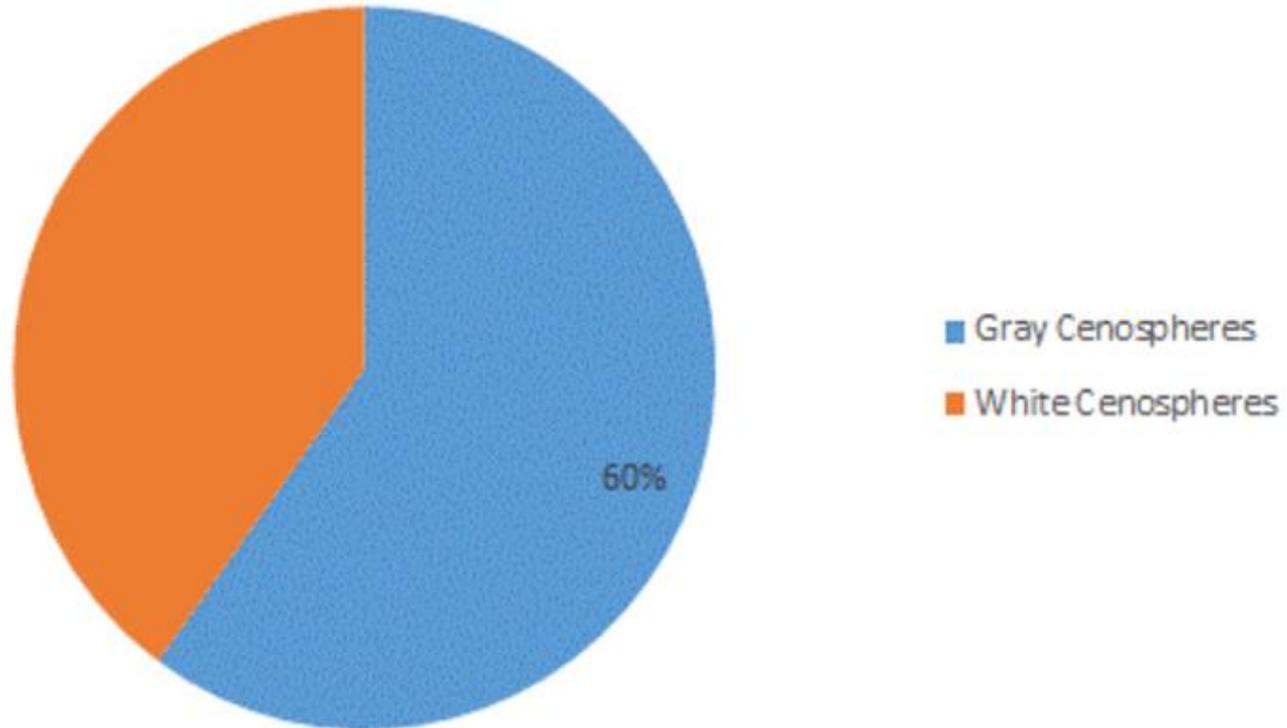
**The global cenospheres market was valued at USD 346.8 Million in 2016 and is projected to reach USD 689.2 Million by 2022, at a CAGR of 12.16% from 2017 to 2022. The growing demand for cenospheres from industries, such as oil & gas, construction, and automotive and superior structural properties of cenospheres are the key factors expected to drive the growth of the market in near future. The major end-use industries of cenospheres are oil & gas, refractory, construction, automotive, and paints & coatings, among others.**



**The market for cenospheres can be segmented on the basis of type of cenospheres into white and gray cenospheres. Based on end user industry, the market for cenospheres can be segregated into building & construction, oil & gas, automotive, paints & coatings, and refractory. The market for cenospheres is anticipated to witness strong growth during the forecast period owing to their increasing applications in myriad of sectors and industries. Abundant availability of raw materials from existing and new thermal power plants is the factor driving the growth of this market.**



# Global Cenospheres Market Share by product type

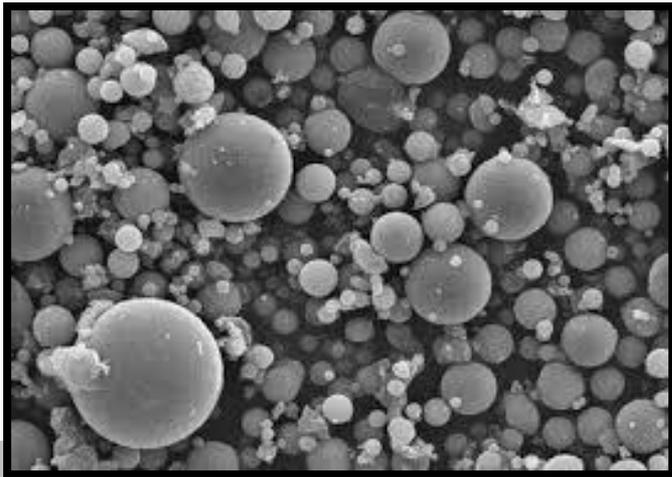


**The cenospheres market is segmented across five regions: Europe, Latin America, Asia Pacific, North America and the Middle East & Africa. Asia Pacific is the fastest growing market whereas North America is expected to be the largest market during the forecast period. The growing oil and gas activities post the shale gas boom is the major factor driving the growth of the market. Cenospheres are extensively used in the oil and gas industry in applications such as drilling mud, as acid grouting compounds, and oil cement among others. Moreover, the developed building and construction, paints & coatings, and the automobile industry are also contributing to the growth of the market during the forecast years.**

**The key countries attributing to this growth are the U.S. and Canada. Asia Pacific is expected to grow at a considerable CAGR during the forecast period. The rapid industrialization in the developing regions has augmented the use of cenospheres in a wide range of end use industries such as oil & gas, automotive, and paints and coatings among others. The growing population mainly in India and China has boosted the oil and gas activities, in turn, adding to the demand for cenospheres.**

**The rising demand for cenospheres or fly ash microspheres is projected to witness a surge and rapid increase due to increasing number of their application areas along with abundance in the availability of raw materials mainly from new and the existing thermal power stations.**

**In addition to this, rapid increase in the global end use industries of cenospheres as well as the global market applications of fly ash microspheres such as ceramics, plastic, construction, recreation automotive, technology and energy among others are some of the major aspects projected to propel the demand for cenospheres or fly ash microspheres hence driving the global cenospheres market during the forecast period and is anticipated to maintain its dominance throughout the forecast period in the foreseeable years.**



## The cenospheres market can be segmented as:

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



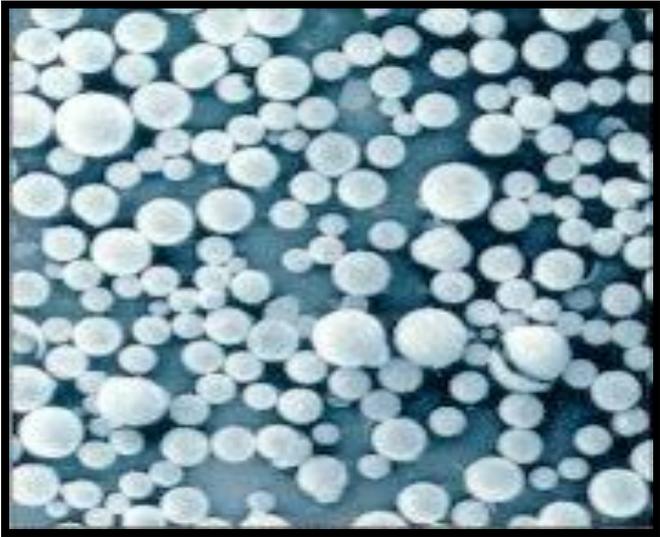
**Cenospheres**

**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.**

# Global Cenosphere Market, By Region, By Value, 2013-2023F



**Major players in the market include Petra India Group (India), Cenosphere India Pvt. Ltd. (India), Durgesh Merchandise Pvt. Ltd. (India), Omya AG (Switzerland), Qingdao Eastchem Inc. (China), Envirospheres (Australia), Scotash Limited (U.K.), PR Ecoenergy Pvt. Ltd. (India), Ceno Technologies (U.S.), and Reslab Microfiller (Australia).**



# Machinery Photographs



**Fly Ash Feeding Machine**



**Automatic Sand Dryer**



**Vibratory Sieve Machine**



**Micron Separator**

# Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propos ed	Total
Land & Site							
Development Exp.	0.00	10.00	10.00	Capital	0.00	64.21	64.21
Buildings	0.00	41.00	41.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	53.13	53.13	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation							
Equipments	0.00	44.50	44.50	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	192.63	192.63
Preliminary& Pre-				Debentures /			
operative Exp	0.00	3.00	3.00	Bonds	0.00	0.00	0.00
Provision for				Unsecured			
Contingencies	0.00	39.00	39.00	Loans/Deposits	0.00	0.00	0.00
Margin Money -							
Working Capital	0.00	43.21	43.21				
TOTAL	0.00	256.84	256.84	TOTAL	0.00	256.84	256.84

# 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				
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs	No. of Times	%
1-2	4.88	8.69	14.88	24.00	0.00	100.00	4.88	0.00	4.88	1.00	0.00
2-3	8.65	11.99	23.53	18.00	0.00	100.00	8.65	0.00	8.65	1.00	0.00
3-4	12.32	15.26	35.86	12.00	0.00	100.00	12.32	0.00	12.32	1.00	0.00
4-5	15.79	18.37	51.64	6.00	0.00	100.00	15.79	0.00	15.79	1.00	0.00
5-6	19.01	21.29	70.65	0.00	0.00	100.00	19.01	0.00	19.01	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - 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	1.29	1.29		1.61	1.61	4.14	7.32%	2.45%	1.70%	385.65	20.97%	3.85	1.08	
2-3	1.70	1.48		0.76	0.76	2.61	8.34%	3.96%	2.59%	449.77	20.96%	4.03	1.19	
3-4	2.17	1.69	2.16	0.33	0.33	1.71	9.02%	5.04%	3.23%	514.02	20.96%	3.99	1.34	
4-5	2.73	1.92		0.12	0.12	1.19	9.47%	5.79%	3.67%	578.27	20.96%	3.85	1.51	
5-6	3.37	2.16		0.00	0.00	0.87	9.77%	6.29%	3.98%	642.52	20.96%	3.64	1.85	

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	67.69%
Total BEP (% of Installed Capacity)	69.97%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	30.22%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	26.247

# 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 Plant and who are the key/major players ?**
- 6. What is the total project cost for setting up Cenosphere Industry?**
- 7. What are the operating costs for setting up 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 plant?**

**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 Industry?**
- 15. What are the Projected Balance Sheets of Cenosphere Processing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Cenosphere Processing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Cenosphere Processing industry?**

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

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

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

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

**22. What are the Project financials of Cenosphere Processing Industry?**

- 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?**
- 26. What is the Process Flow Sheet Diagram of Cenosphere Processing project?**

- 27. What are the Market Opportunities for setting up Cenosphere Processing plant?**
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- **This report helps you market and place the product correctly by identifying the target customer group of the product**

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- **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**

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- **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\_Industry, #Cenosphere\_Processing\_Plant,  
#Cenosphere\_Manufacture,  
#Production\_of\_Cenospheres\_from\_Coal\_Fly\_Ash, Cenospheres,  
#Cenosphere\_Separation\_from\_Fly\_Ash, Cenosphere Processing, Processing  
of Cenosphere, Cost of Manufacturing Plant for Cenosphere, Cenosphere  
Manufacturing Process, #Fly\_Ash\_(Cenospheres)\_Microspheres, Cenosphere  
Industry, Flyash - High Value Added Products and Application, Cenosphere  
Manufacturing Plant,  
#Project\_Report\_on\_Cenosphere\_Manufacturing\_Industry, Detailed Project  
Report on Cenosphere Processing Plant, Project Report on Cenosphere  
Processing Industry, Pre-Investment Feasibility Study on Cenosphere  
Manufacturing, Techno-Economic feasibility study on Cenosphere Processing  
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Industry, Cenosphere Production, cenosphere uses, Production of  
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#How\_to\_Start\_Cenosphere\_Processing\_Industry, Cenosphere Processing  
Project

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**High Value Added Product from**  
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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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- **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

## **NIIR PROJECT CONSULTANCY SERVICES**

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



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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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