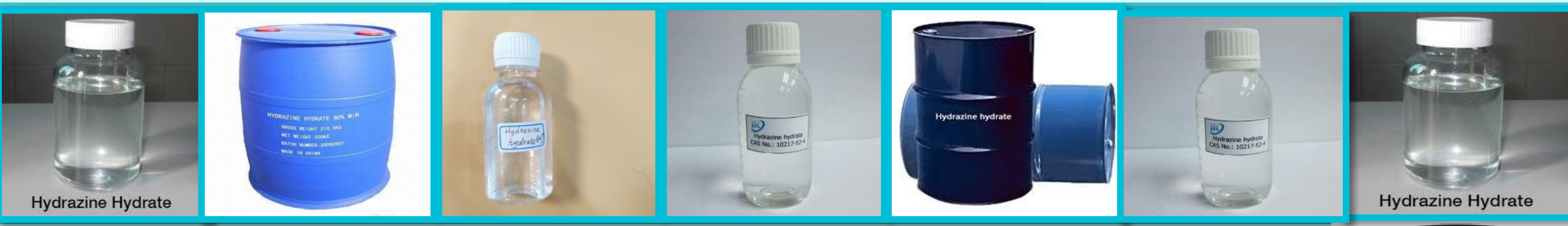
Hydrazine Hydrate Manufacturing Industry.

Investment Opportunities in Chemical Business



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Introduction

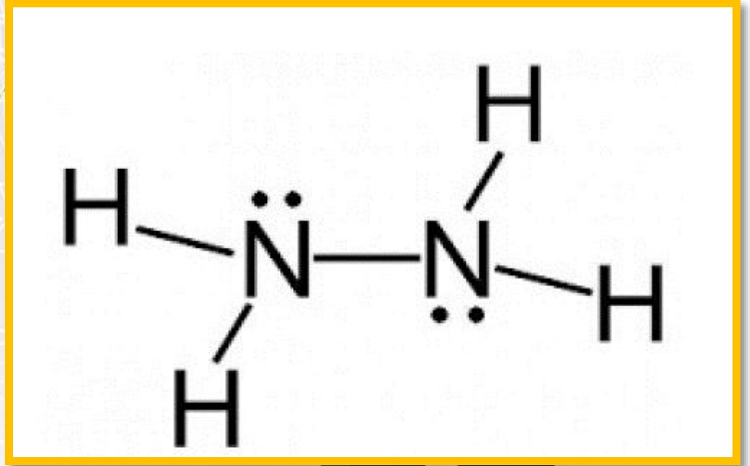
Hydrazine is a colorless inorganic compound with odor similar to that of ammonia. Hydrazine hydrate is mainly used as a foaming agent in polymer foams. In agrochemicals field, it helps in manufacturing of pyrazole and its derivatives that have a significant use in pesticide chemistry because of its biological properties. Pyrazoles demonstrate antimicrobial, antihyperglycemic, antipyretic, antihelmintic, antioxidant, and herbicidal properties.

Hydrazine Hydrate

Uses:

Hydrazine Hydrate is primarily used as an intermediate in the production of blowing agents, but may also be used in boiler water treatment, as an intermediate in the production of pharmaceuticals and agricultural products.

Hydrazine hydrate is also used in the production of several drugs for veterinary applications. It is also used in the treatment of tuberculosis in the pharmaceutical field.



Applications:

- As rocket fuel in space application.
- As energy source in fuel cells.
- As blowing agent in plastic industry.
- In boilers-used as oxygen scavenger for boiler feed water in energy industry.
- Prevention of corrosion in boilers by formation of a magnetite corrosion "shield" in boiler surface.
- In synthesis of organic nitrogen compounds which are very useful intermediates in drugs 7 pharmaceutical industries.
- In making herbicides & pesticides in agro-industry.

Hydrazine hydrate is possessed of several advantages:

(1) With a high storage capacity, the hydrogen reserve of hydrazine hydrate is 8% (mass fraction);

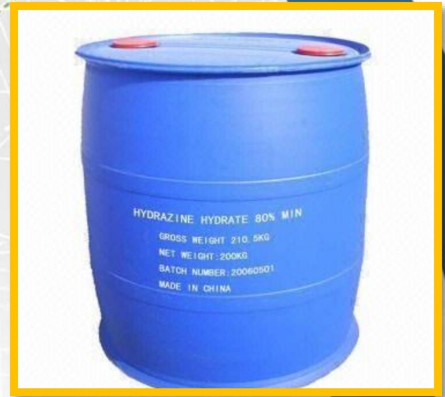
(2) It appears as liquid under room temperature, which can be stored and delivered safely;

(3) The decomposition of hydrazine hydrate can merely generate hydrogen and ammonia gas without any solid-state byproduct.

Market Outlook

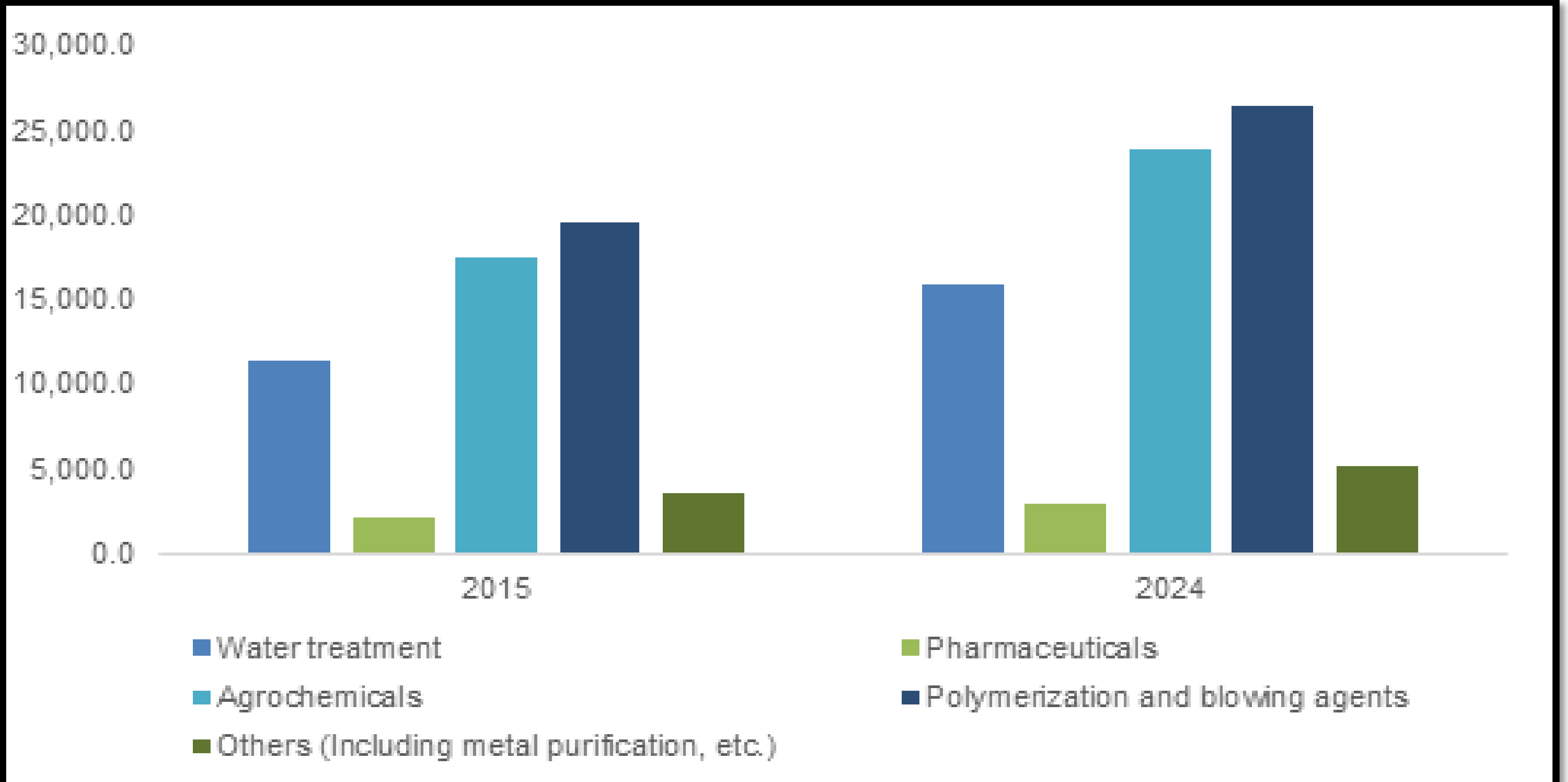
Global Hydrazine Hydrate Market is anticipated to reach USD 531.23 Million by 2023, growing at a CAGR of over 5%, in value terms due to the growing popularity of polymer foams as Hydrazine hydrate is primary a precursor to blowing agents in polymer foams. Moreover, the rising demand of hydrazine hydrate in the waste-water treatment industry coupled with the increasing application as fuel in eco-friendly fuel cells will ensure robust growth of the market in the next five years.

Based on the concentration of hydrazine hydrate, the 60%-85% segment is expected to hold the largest market share during the forecast period owing to its use in manufacturing of veterinary drugs, chemical synthesis, polymerization, or as a blowing agent. Based on the application, the polymerization & blowing agents segment is expected to grow at the highest CAGR by 2023 due to the increasing demand of polymers in end-use industries like automobile, electronic gadgets etc. Asia-Pacific region is projected to lead the market in the next five years due to growing demand in agrochemical and wastewater treatment industries.



Rising demand of polymer foams in polymer industry will have a great influence on the hydrazine hydrate market throughout the forecast timeframe. Its application in a wide range of products which includes food containers, foamed core pipes, vinyl sheets, and structural foam wood grain furniture will propel the market growth. The growth in the end-user industries such as building & construction, packaging, automotive, and furniture & bedding industries will drive the market for polymer foams in the coming eight years.

U.S Hydrazine Hydrate Market size, by end-user, 2015 & 2024 (USD '000)



Due to wide-ranging chemical properties, hydrazine hydrate finds application in numerous end-use industries. It has an odor similar to ammonia and is typically colorless. The exposure to hydrazine hydrate is restricted to some extent due to its toxic nature.

High use of hydrazine hydrate in end-user, such as pharmaceuticals, agrochemical, water treatment and polymerization & blowing agent is expected to drive the market in upcoming years. Furthermore, the carcinogenic property of the hydrazine hydrate may impact the growth of the market in the forecast period. Nevertheless, increasing demand of hydrazine hydrate in polymer industries is expected offer ample opportunities in the coming years.

The global hydrazine hydrate market can be segmented on the basis of end-user, concentration level, and regions. On the basis of end-user, the global market can be segregated into water treatment, pharmaceuticals, polymerization & blowing agents, and agrochemicals. Hydrazine hydrate is widely used in agrochemicals for various purposes such as insecticides, pesticides, and fungicides, which in turn is expected to fuel the global hydrazine hydrate market. On the basis of concentration level market is classified into 24%-35%, 40%-55%, 60%-85% and 100%. Hydrazine hydrate possesses applications such as foamed core pipes, structural foam wood grain furniture food containers and vinyl sheets which are expected to fuel the market growth in the forecast period.

Among various applications, polymerization & blowing agents is estimated to be the largest application of the global hydrazine hydrate market. In polymerization & blowing agents segment, hydrazine hydrate is used to manufacture plastics and rubber chemicals. Derivatives of hydrazine hydrates such as azobisisobutyronitrile and azodicarbonamide are used as polymerization initiators and low temperature blowing agents. In addition, there are several other hydrazine-based chemical blowing agents such as benzene and toluenesulfonylhydrazide, which are used in low temperature applications.

Steady growth in the polymer industry is expected to propel the global hydrazine hydrate market size, with its primary usage as a precursor to blowing agents in polymer foams.

The demand for fertilizers and pesticides is higher in the Asia Pacific as compared to other regions such as North America, Latin America, and Europe. China and India in the region are expected to spur the hydrazine hydrate market due to the growing agrochemicals industry and rapid economic growth. Moreover, the China-based manufacturers are manufacturing hydrazine hydrate to expand its existing production facilities for satisfying local needs of hydrazine hydrate, used majorly for manufacturing azodicarbonamide (ADC) required in the polymer industry.

Global Hydrazine Hydrate Market

It is expected to be the fastest growing concentration level segment of the hydrazine hydrate market, in terms of value, during the forecast period due to its ability to manufacture hydrazine salts from inorganic acids. The application of 60%-85% concentration grade of hydrazine hydrate in fuel cells as an effective substitute to hydrogen and oxygen is expected to present many opportunities to the hydrazine hydrate manufacturers.

The worldwide market demand for hydrazine hydrate is 80 to 90 thousand tons a year. Consumption is roughly 32% for pesticides, 33% for foaming agents, 20% for water treatment agents and 15% for others. Demand will grow steadily in future, with demand in advanced countries declining while demand in developing countries, Asian countries in particular, growing rapidly.

Due to increasing downstream demand, global hydrazine hydrate production varied from 137182 Ton in 2013 to 148616 Ton in 2017, with an average increase rate of 2.02%. In the future, we predict that this trend will continue. By 2024, global production may be 187381 ton.

Few Indian major players are as under:

- **Aditya Chemicals Ltd.**
- **Andhra Farm Chemicals Corpn. Ltd.**
- **Arihant Chemicals Inds. Ltd.**
- **Jay Chemical Inds. Ltd.**
- **Naveen Enterprises Ltd.**
- **S V Trading & Agencies Ltd.**

Machinery Photographs

AMMONIA STORAGE TANKS

CHLORINE FEEDING TANK

PURIFICATION SYSTEM

PURIFICATION SYTEM

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	87.50	87.50	Capital	0.00	383.76	383.76
Buildings	0.00	256.80	256.80	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	836.50	836.50	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	18.00	18.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	119.00	119.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	50.00	50.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	1151.27	1151.27
Preliminary& Pre-operative Exp	0.00	8.00	8.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	101.00	101.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	58.22	58.22				
TOTAL	0.00	1535.02	1535.02	TOTAL	0.00	1535.02	1535.02

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	4.95	9.78	14.95	24.00	0.00	100.00	4.95	0.00	4.95	1.00	0.00
2-3	7.59	11.76	22.54	18.00	0.00	100.00	7.59	0.00	7.59	1.00	0.00
3-4	10.25	13.86	32.79	12.00	0.00	100.00	10.25	0.00	10.25	1.00	0.00
4-5	12.88	16.01	45.68	6.00	0.00	100.00	12.88	0.00	12.88	1.00	0.00
5-6	15.48	18.19	61.15	0.00	0.00	100.00	15.48	0.00	15.48	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	1.41	1.41		1.61	1.61	2.06		17.67%	10.06%	7.75%	1137.30	46.37%	1.43	0.94
2-3	1.67	1.53		0.80	0.80	1.14		20.79%	14.97%	10.18%	1317.97	46.06%	1.58	1.37
3-4	2.00	1.67	2.00	0.37	0.37	0.64		22.95%	18.48%	12.03%	1506.04	46.06%	1.62	1.87
4-5	2.40	1.83		0.13	0.13	0.35		24.47%	21.05%	13.44%	1694.11	46.05%	1.58	2.44
5-6	2.89	2.00		0.00	0.00	0.18		25.55%	22.96%	14.53%	1882.18	46.05%	1.49	4.75

Project at a Glance

BEP	
BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	44.52%
Total BEP (% of Installed Capacity)	50.06%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	26.57%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	5.152

Major Queries/Questions Answered in the Report?

1. What is Hydrazine Hydrate Manufacturing industry ?

2. How has the Hydrazine Hydrate Manufacturing industry performed so far and how will it perform in the coming years ?

3. What is the Project Feasibility of Hydrazine Hydrate Manufacturing Plant ?

4. What are the requirements of Working Capital for setting up Hydrazine Hydrate 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 Hydrazine Hydrate." provides an insight into Hydrazine Hydrate market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Hydrazine Hydrate project. The report assesses the market sizing and growth of the Indian Hydrazine Hydrate 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 Hydrazine Hydrate sector in India along with its business prospects. Through this report we have identified Hydrazine Hydrate project as a lucrative investment avenue.

Tags

Hydrazine Hydrate, Inorganic Compound, Manufacturing Process of Hydrazine Hydrate, Process for Production of Hydrazine Hydrate, Production of Hydrazine, Preparation of Hydrazine Hydrate, Manufacture of Hydrazine Hydrate, Hydrazine Hydrate Manufacturing Plant, Chemical, How to Make Hydrazine, Hydrazine Hydrate Manufacture, Hydrazine Hydrate Production, Hydrazine Hydrate Manufacturing Process, Hydrazine Hydrate Unit, Hydrazine Hydrate Industry, Hydrazine Hydrate Manufacturing, Production of Hydrazine Hydrate, Hydrazine Hydrate for Manufacturing of Several Insecticides, Pesticides and Fungicides, Hydrazine Hydrate Production Process, Hydrazine Hydrate Plant, Hydrazine Hydrate Industry, Industrial Chemicals, Industrial Hydrazine Hydrate, Project Report on Hydrazine Hydrate Manufacturing Industry, Detailed Project Report on Hydrazine Hydrate Manufacturing, Project Report on Hydrazine Hydrate Manufacturing, Pre-Investment Feasibility Study on Hydrazine Hydrate Manufacturing, Techno-Economic feasibility study on Hydrazine Hydrate Production, Feasibility report on Hydrazine Hydrate Production, Free Project Profile on Hydrazine Hydrate Production, Project profile on Hydrazine Hydrate Production, Download free project profile on Hydrazine Hydrate Manufacturing

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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:

- **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

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NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company

npcs

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*

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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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For more information, visit us at:

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