



# Sodium Chlorite ( $\text{NaClO}_2$ )

## Manufacturing Industry.

**Direct Electrolysis Process from  
Sodium Chloride to Sodium Chlorite**

# Introduction

**Sodium Chlorite is a white crystalline solid. Difficult to burn, but accelerates the burning of organic substances. Forms explosive mixtures with certain combustible materials. May explode under prolonged exposure to heat or fire. Used in water purification, to bleach wood pulp, textile, fats, oils; and for many other uses. Sodium chlorite is an inorganic sodium salt in which chlorite is the counterion. It has a role as an oxidising agent. It is an inorganic sodium salt and a chlorite salt.**



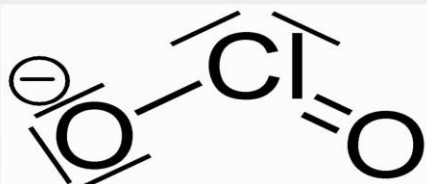
**Sodium chlorite is a salt-based chemical that also features the element chlorine. It has several practical uses and is very similar to sodium chlorate, a common food additive.**

## **Uses:**

- **Chemical Composition**

**Sodium chlorite is the product of three elements: sodium (Na), chlorine (Cl) and oxygen. In each molecule, one sodium atom and one chlorine atom bind with two oxygen atoms. The chemical equation for this composition is  $\text{NaClO}_2$ . It is found in solid form as a white powder and is also water-soluble. Under high heat, it can be explosive.**

**Sodium chlorite**



- **Agriculture**

**Sodium chlorite has widespread application in agriculture. It can be combined with citric acid, which helps acidify it, and applied to food products as an antimicrobial treatment. This treatment can be used on meats, poultry, fish, fruits and vegetables. It can be applied in food and water treatments to kill various microbials and parasites without eliminating healthy bacteria needed by our digestive system.**

- **Oxidizing Power**

**One of the primary uses of sodium chlorite is as an oxidizer. It is helpful in bleaching various types of materials, such as wood, oils, and other textile products. It can help deactivate many types of poisons by interacting with them and changing their chemical composition. The oxidizing powers of sodium chlorite also make it a useful pesticide and herbicide.**

- **A bleaching agent (generates chlorine dioxide)**

**Mainly in the textile & paper industries, but also in low concentrations in mouthwashes, toothpastes & eye drops.**



# Market Outlook

**The growing healthcare and sanitation industry is a key driver for the market of sodium chlorite. Sodium chlorite is used as an anti-microbial agent and disinfectant, owing to which it finds use in hospital operation theatres, waiting rooms and critical care units. Additionally, they are used in the food and poultry industry. Chlorine dioxide is used extensively in public water supplies as it is less harmful than the traditionally used chlorine for water purification. The growing urban population is responsible for the increase in consumption of sodium chlorite used for water purification.**



**Additionally, the growing healthcare industry is driving the market of sodium chlorite. However, sodium chlorite is a strong oxidizing agent and it must therefore be handled with caution. Sodium chlorite is being researched for its use in the treatment of amyotrophic lateral sclerosis; this is expected to open new areas of opportunities for sodium chlorite, if conclusive results for its use to treat this disease are obtained.**

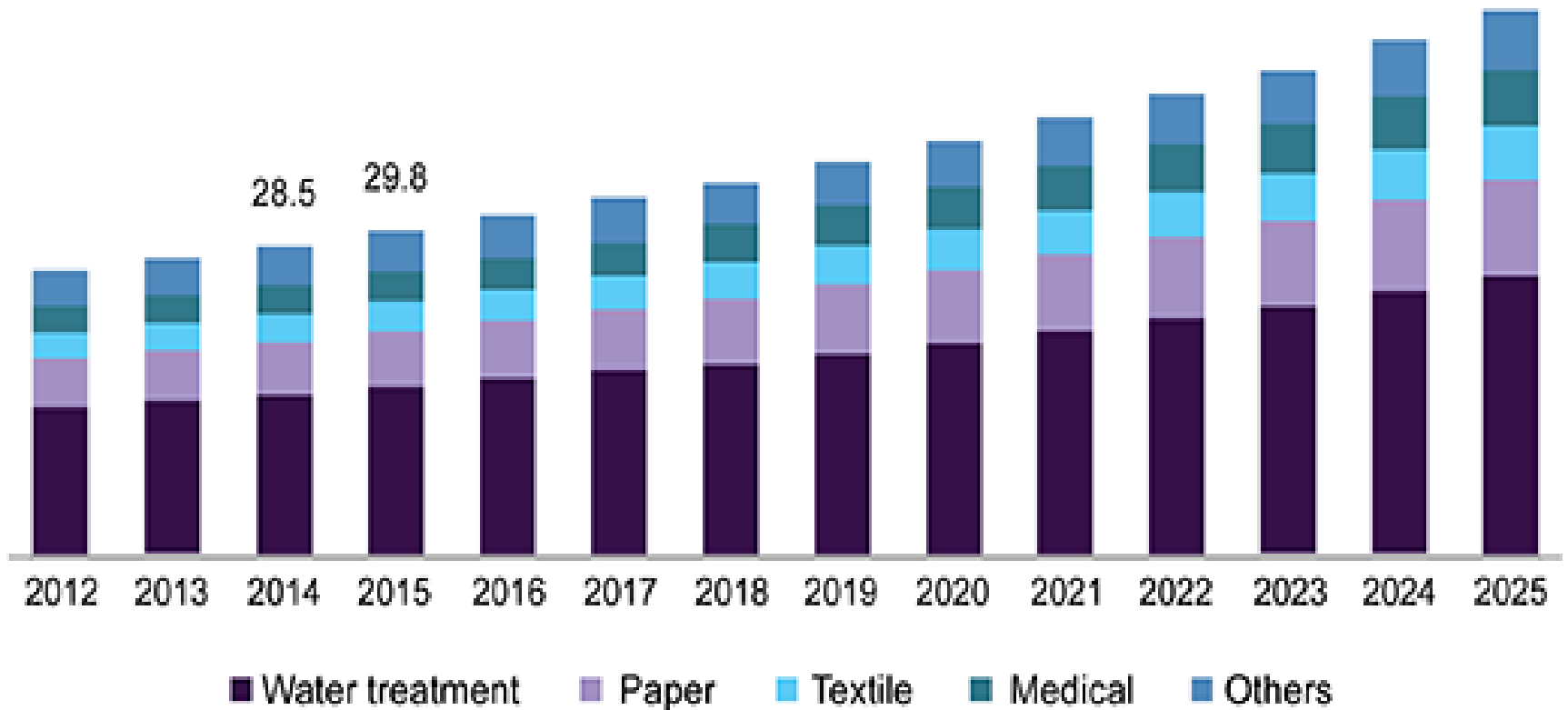
**Key drivers propelling the growth of sodium chlorite market are high demand of sodium chlorite from pulp industry, usage of sodium chlorite for antimicrobial agent in operation theatres coupled with usage of sodium chlorite for water purification. Moreover, increase in urban population which increases sodium chlorite usage due to water purification coupled with sodium chlorite effectiveness against preventing the progression of lateral sclerosis disease are few more important factor boosting the sodium chlorite market.**

**Demand for sodium chlorite from various industries such as food and beverages, synthetic and cotton fabrics, along with pest control manufacturing units also contributing to the overall growth of sodium chlorite market. However, availability of alternatives such as ozone and hydrogen peroxide used for pulp bleaching is expected to hamper the growth of the market. Also, increasing cost of raw material combined with competitive price standards are most likely to affect the profit margins of the players in the industry.**





# U.S. Sodium Chlorite Market Revenue, By End-Use, 2012-2025 (USD Million)



**By type, global sodium chlorite market is subdivided into liquid and solid form while textile, disinfectant, antimicrobial agent, bleaching agent, and others are its applications. Use of antimicrobial agent is mainly driven by food processing industry while bleaching agents finds use in paper and pulp industry industries due to its oxidizing properties. By end-use, sodium chlorite market is segmented into water treatment, paper, medical, and textile.**

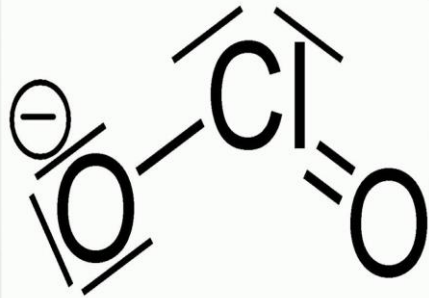
**Global Sodium Chlorite market size will increase to Million US\$ by 2025, from Million US\$ in 2018, at a CAGR of during the forecast period. Superior antimicrobial, bleaching and disinfectant properties offered by the product is expected to drive its demand in water treatment, pulp & paper, medical and textile applications.**

**By geography, global sodium chlorite market is categorized into North America, Europe, Asia- Pacific, Latin America, and Middle East & Africa. Asia Pacific leads the market and is anticipated to continue to be the market leader in the upcoming years mainly owing to high demand for sodium chlorite from paper and pulp application in this region. North America, Europe and MEA are forecasted to be relatively sluggish primarily due to decline in paper and pulp industry in the region.**

***Key players across the global sodium chlorite market value chain are:***

**Alfa Aesar, Akzo Nobel N.V. (Eka Chemicals), Kemira, ABI Chemicals, Be Pharm, DuPont, OxyChem, Finetech Industry, Shanghai IS Chemical Technology, AOK Chem, Erco Worldwide among others.**

# Sodium chlorite



# Machinery Photographs

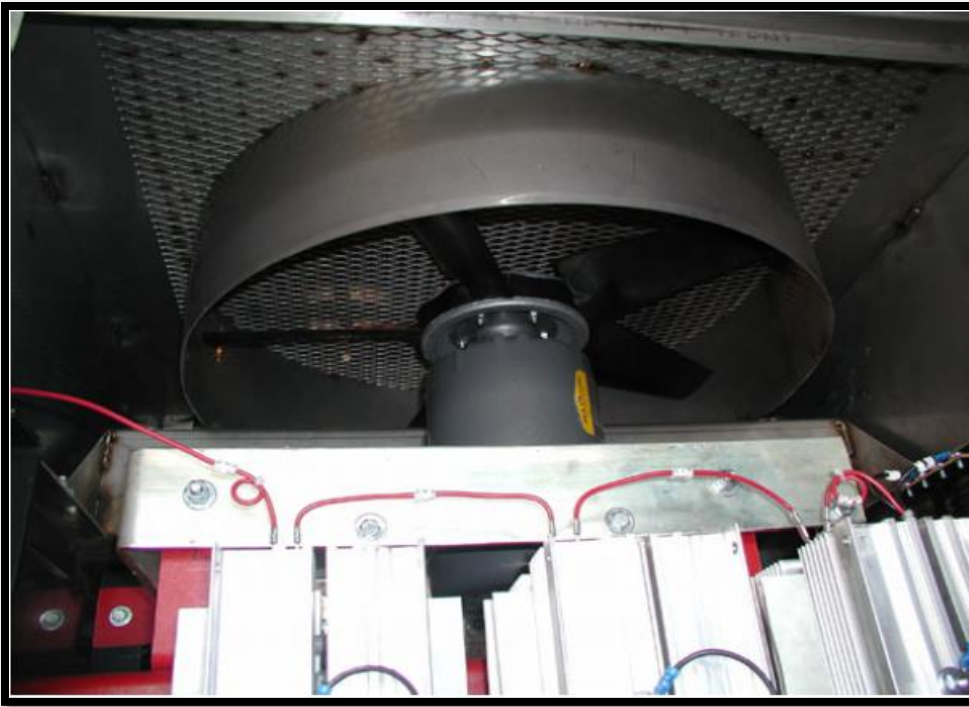


**Storage Tank**



**Control Rectifier**





**Rectifier Cooling Fan Arrangement**



**Water Softener**

# 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	45.00	45.00	Capital	0.00	44.30	44.30
Buildings	0.00	25.80	25.80	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	58.50	58.50	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	24.00	24.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow				Internal Cash			
Fees & Exp.	0.00	6.00	6.00	Accruals	0.00	0.00	0.00
Franchise & Other				Long/Medium Term			
Deposits	0.00	0.00	0.00	Borrowings	0.00	132.91	132.91
Preliminary& Pre- operative Exp	0.00	1.50	1.50	Debentures /			
Provision for				Bonds	0.00	0.00	0.00
Contingencies	0.00	6.00	6.00	Unsecured			
Margin Money - Working Capital	0.00	5.42	5.42	Loans/Deposits	0.00	0.00	0.00
TOTAL	0.00	177.22	177.22	TOTAL	0.00	177.22	177.22

# 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	4.91	8.48	14.91	24.00	0.00	100.00	4.91	0.00	4.91	1.00	0.00
2-3	7.69	10.80	22.59	18.00	0.00	100.00	7.69	0.00	7.69	1.00	0.00
3-4	10.42	13.14	33.02	12.00	0.00	100.00	10.42	0.00	10.42	1.00	0.00
4-5	13.08	15.45	46.09	6.00	0.00	100.00	13.08	0.00	13.08	1.00	0.00
5-6	15.63	17.71	61.72	0.00	0.00	100.00	15.63	0.00	15.63	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	1.27	1.27		1.61	1.61	1.74	38.14%	19.94%	14.20%	147.24	96.24%	0.87	0.71	
2-3	1.56	1.41		0.80	0.80	0.90	43.43%	28.88%	19.09%	171.78	96.24%	0.96	1.30	
3-4	1.90	1.56	1.90	0.36	0.36	0.44	47.02%	35.18%	22.63%	196.32	96.24%	0.99	2.13	
4-5	2.32	1.72		0.13	0.13	0.19	49.47%	39.68%	25.24%	220.86	96.24%	0.96	3.18	
5-6	2.82	1.90		0.00	0.00	0.05	51.12%	42.93%	27.16%	245.40	96.24%	0.90	13.15	

# Project at a Glance

## **BEP**

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	51.64%
Total BEP (% of Installed Capacity)	55.39%
<b>IRR, PAYBACK and FACR</b>	
Internal Rate of Return .. ( In %age )	23.74%
Payback Period of the Project is ( In Years )	2 Years 4 Months
Fixed Assets Coverage Ratio ( No. of times )	2.281

# Major Queries/Questions Answered in the Report?

- 1. What is Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing industry ?**
- 2. How has the Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**

- 5. What is the structure of the Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Business?**
- 7. What are the operating costs for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Business?**
- 12. What is the Manufacturing Process of Sodium Chlorite (NaClO<sub>2</sub>)?**

- 13. What is the total size of land required for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**
- 14. What will be the income and expenditures for Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Business?**

**18. What are the Personnel (Manpower) Requirements for setting up Sodium Chlorite (NaClO<sub>2</sub>) Manufacturing Business?**

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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 Sodium Chlorite (NaClO<sub>2</sub>).” provides an insight into Sodium Chlorite (NaClO<sub>2</sub>) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Sodium Chlorite (NaClO<sub>2</sub>) project. The report assesses the market sizing and growth of the Indian Sodium Chlorite (NaClO<sub>2</sub>) 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 Sodium Chlorite (NaClO<sub>2</sub>) sector in India along with its business prospects. Through this report we have identified Sodium Chlorite (NaClO<sub>2</sub>) project as a lucrative investment avenue.**

# Tags

#How\_Sodium\_Chlorite\_is\_Made, #Production\_of\_Sodium\_Chlorite, #Production\_Process\_of\_Sodium\_Chlorite, Preparation of Sodium Chlorite, Process of Making Sodium Chlorite, Sodium Chlorite Manufacture, Sodium Chlorite, Sodium Chlorite Uses, #Sodium\_Chlorite\_(NaClO<sub>2</sub>), Sodium Chlorite Production, Sodium Chlorite Plant, #Sodium\_Chlorite\_Industry, Sodium Chlorite Manufacture, How to Make Sodium Chlorite, #Project\_Report\_on\_Sodium\_Chlorite\_manufacturing\_Industry, Detailed Project Report on Sodium Chlorite Production, Project Report on Sodium Chlorite Production, Pre-Investment Feasibility Study on Sodium Chlorite Production, Techno-Economic feasibility study on Sodium Chlorite Production, #Feasibility\_report\_on\_Sodium\_Chlorite\_Production, Free Project Profile on Sodium Chlorite Production, #Project\_profile\_on\_Sodium\_Chlorite\_Production, Download free project profile on Sodium Chlorite Production, Sodium Chlorate Manufacturing, Sodium Chlorate Manufacturing Business, Manufacturing Process of Sodium Chlorate, #Manufacture\_of\_Sodium\_Chlorate, Sodium Chlorite in India, #Sodium\_Chlorite\_Production\_Business

**Niir Project Consultancy Services (NPCS)  
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Sodium Chlorite (NaClO<sub>2</sub>)  
Manufacturing Industry.  
Direct Electrolysis Process from  
Sodium Chloride to Sodium  
Chlorite**

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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.**



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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**

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

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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

## NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,  
New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>





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