



Manufacturing Business of

Calcium Carbide (Calcium Acetylide)

Investment Opportunities in Chemical Industry.

Introduction

Calcium carbide or CaC_2 , also known as acetylene black, is an inorganic compound that has been used since the late 19th century as a raw material in the production of methanol, acetic acid, and acetone, among other products. Although the use of calcium carbide has been largely replaced by technologies that generate acetylene from methane, calcium carbide remains an important industrial chemical.

It is made by carbothermal reduction of lime (calcium oxide), or by heating calcium oxide with coke or coal in the presence of water at over 350°C. Calcium carbide, CaC_2 , is an important raw material in industries such as metallurgy, ceramics, synthetic fibres and chemicals. It is used to manufacture acetylene gas which, in turn, can be used to make polymers like nylon 66, polyesters and polyethylene terephthalate (PET). Calcium carbide is an inorganic compound with chemical formula CaC_2 .

It is a white odourless crystalline material that is insoluble in water and soluble in carbon disulfide and acetone. It has been used as a source of acetylene, which was once commonly produced by treating calcium carbide with water vapor or carbon dioxide. Calcium carbide reacts readily with moisture, oxygen, metals, and many other materials.

Properties of Calcium Carbide

Calcium carbide is mainly used in chemical synthesis, calcium carbide flame generally use for burning hydrocarbon, such as natural gas. At present, there are two common ways of production: acetylene production process and coke ovens methanol process. In recent years, coke ovens methanol produced from non-metallic raw materials has been widely applied.

Coke is made by calcination at high temperature carbonaceous material such as coal or petroleum coke. After forming at room temperature, acetylene gas is obtained when calcium carbide reacts with water. A mixture of acetylene and air can be used as fuel for lighting or heating, or in oxyacetylene welding torches. When heated in an atmosphere of insufficient oxygen, calcium carbide decomposes with formation of intense heat and may explode.

Production Processes

CaC₂ is prepared by treating lime with coke at high temperatures in an electric furnace, or by passing acetylene gas over heated lime. The process gives off toxic fumes of CO and NO_x. Then, convert calcium carbide into acetylene through various reactions: $\text{CaC}_2 + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{C}_2\text{H}_4 + \text{H}_2\uparrow$ or $\text{CaC}_2 + \text{HCl} \rightarrow \text{CaCl}_2 + \text{C}\uparrow$ For production process see also Acetylene-producing equipment Industrial methods, where ammonia is used instead of hydrochloric acid.

The production of calcium carbide involves two main steps: electrolyzing lime with coke or coal, and then mixing with water. calcium oxide is created by passing carbon dioxide through lime kilns. The resulting slaked lime is then mixed with coke in an electric furnace. The mixture leaves as molecular lime gas, which reacts with atmospheric carbon dioxide to form solid calcium carbide.

Market Outlook

The calcium carbide market was estimated at 27.5 million tons in 2020, and the market is projected to register a CAGR of about 4% during the forecast period (2021-2026). The demand for Calcium Carbide is growing due to its superior mechanical properties that meet today's most demanding thermal, mechanical, and electrical performance requirements across various applications.

Additionally, the use of calcium carbide not only simplifies and diminish the cost of synthesis, but also avoids the problems associated with transportation and sorting that makes it as a useful product across pharmaceuticals, cosmetics, plastics and steel industries. The demand for Calcium Carbide is growing due to its superior mechanical properties that meet today's most demanding thermal, mechanical, and electrical performance requirements across various applications.

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Key Players

- **ALMAMET GMBH**
- **Rexarc International, Inc.**
- **Donau Chemie AG**
- **Lonza Group AG**
- **Denka Company Limited**
- **Carbide Industries LLC**
- **AlzChem**
- **Iran Carbide**
- **SA Calcium Carbide**

Machinery Photographs



Conveyor



Electric Arc Furnance



Project

at a

Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	60.00	60.00	Capital	0.00	952.61	952.61
Buildings	0.00	533.00	533.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	2126.70	2126.70	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	15.00	15.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	499.50	499.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	40.00	40.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	2857.84	2857.84
Preliminary & Pre-operative Exp	0.00	10.00	10.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	209.00	209.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	317.25	317.25				
TOTAL	0.00	3810.45	3810.45	TOTAL	0.00	3810.45	3810.45

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				
										No.of Times	
						%		%			%
1-2	4.28	9.11	14.28	24.00	0.00	100.00	4.28	0.00	4.28	1.00	0.00
2-3	7.80	11.96	22.08	18.00	0.00	100.00	7.80	0.00	7.80	1.00	0.00
3-4	11.33	14.92	33.41	12.00	0.00	100.00	11.33	0.00	11.33	1.00	0.00
4-5	14.83	17.94	48.24	6.00	0.00	100.00	14.83	0.00	14.83	1.00	0.00
5-6	18.29	20.97	66.53	0.00	0.00	100.00	18.29	0.00	18.29	1.00	0.00

Year	D. S. C. R.			Debt / - Deposits Debt	Equity as- Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio
	Individual	Cumulat ive	Overall					GPM	PBT	PAT	Net Contrib ution	P/V Ratio	
	(Number of times)			(Number of times)	%	%	%	%	%		%		
Initial				3.00	3.00								
1-2	1.35	1.35		1.68	1.68	2.32		11.63%	6.06%	4.84%	5209.88	61.77%	1.88
2-3	1.73	1.53		0.82	0.82	1.29		15.58%	11.12%	7.55%	6063.11	61.61%	2.05
3-4	2.18	1.73	2.19	0.36	0.36	0.71		18.41%	14.79%	9.60%	6928.91	61.61%	2.07
4-5	2.71	1.95		0.12	0.12	0.40		20.48%	17.52%	11.17%	7794.71	61.61%	1.98
5-6	3.35	2.19		0.00	0.00	0.22		22.04%	19.59%	12.39%	8660.51	61.61%	1.83

BEP**BEP - Maximum Utilisation Year****5****Cash BEP (% of Installed Capacity)****65.23%****Total BEP (% of Installed Capacity)****68.18%****IRR, PAYBACK and FACR****Internal Rate of Return .. (In %age)****28.00%****Payback Period of the Project is (In Years)****2 Years 3 Months****Fixed Assets Coverage Ratio (No. of times)****7.600**

Major Queries/Questions Answered in the Report?

- 1. What is Calcium Carbide (CaC₂) Manufacturing industry ?**
- 2. How has the Calcium Carbide (CaC₂) Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Calcium Carbide (CaC₂) Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Calcium Carbide (CaC₂) Manufacturing plant ?**

- 5. What is the structure of the Calcium Carbide (CaC₂) Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Calcium Carbide (CaC₂) Manufacturing Business?**
- 7. What are the operating costs for setting up Calcium Carbide (CaC₂) Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Calcium Carbide (CaC₂) Manufacturing plant ?**

9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Calcium Carbide (CaC₂) Manufacturing plant ?

10. What are the requirements of raw material for setting up Calcium Carbide (CaC₂) Manufacturing plant ?

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A glass container, resembling a perfume bottle or a specialized laboratory vessel, is positioned centrally. It has a bulbous body and a narrow neck, filled with dark, irregular granules. The container sits on a decorative, perforated base. The background is a light blue gradient with faint, stylized geometric shapes.

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The background of the slide is a high-angle photograph of five business professionals (three men and two women) sitting around a round table. They are dressed in business attire and appear to be in a collaborative meeting. One man is pointing at a tablet, while others look on attentively. Papers and documents are scattered on the table.

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 anticipate the industry performance and make sound business decisions**

A photograph of three business professionals in a modern office setting. A man in a grey suit is shaking hands with another man in a grey suit. A woman in a grey blazer stands between them, smiling. The background shows large windows with a view of trees and buildings.

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 Calcium Carbide (CaC₂).” provides an insight into Calcium Carbide (CaC₂) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Calcium Carbide (CaC₂) project. The report assesses the market sizing and growth of the Indian Calcium Carbide (CaC₂) 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 Calcium Carbide (CaC₂) sector in India along with its business prospects. Through this report we have identified Calcium Carbide (CaC₂) project as a lucrative investment avenue.

Tags

#DetailedProjectReport **#BusinessIdeas**
#StartupBusinessIdea **#EntrepreneurIndia**
#NPCSProjects **#BusinessConsultant**
#ProjectReport **#Startup** **#BusinessOpportunity**
#BusinessPlan **#Business** **#CalciumCarbide**
#CaC2 **#ChemicalIndustry** **#ChemicalBusiness**
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The background of the slide is a blurred photograph of a business meeting. On the left, a person in a dark blue suit is seen from the back, holding a mobile phone to their ear. On the right, another person in a dark suit is partially visible, also holding a mobile phone. The background shows a cityscape with tall buildings under a bright sky.

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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.

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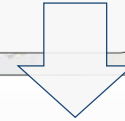
We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.

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- **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)**

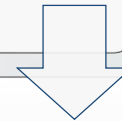
- We have two decades long experience in project consultancy and market research field
- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision

Our Approach

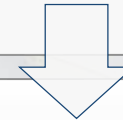
Requirement collection



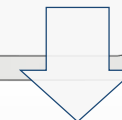
Thorough analysis of the project



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**

- ❖ **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**

- ❖ **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.**

- ❖ **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...*

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...*

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 Report

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

5. Key Financials and Analysis

5.1 Contact Information

5.2 Key Financials

5.3 Financial comparison

6. Industry Size & Outlook



CONTACT US



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Take a look at **NIIR PROJECT CONSULTANCY SERVICES** on #StreetView

[google-street-view](https://www.google.com/maps/@28.6448127,77.0333721,15z)

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YOU

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