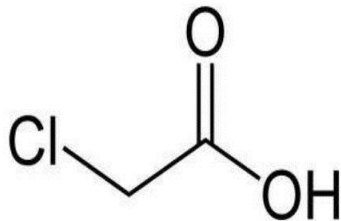


# Opportunities in Production of Monochloroacetic Acid

Monochloroacetic acid



(MCAA).



**An essential ingredient in the  
Chemical Industry**

# **Introduction**

**Monochloroacetic acid (MCAA) is a specialty organochlorine compound, also known as chloroacetic acid. It is the building block in organic synthesis, and is hence used in the production of various chemical compounds, drugs, and agrochemicals. Significant amount of MCAA is consumed for the production of carboxymethylcellulose (CMC), thioglycolic acid, USP grade glycine, and technical grade glycine, which is a major precursor to the production of glyphosate.**



**Monochloroacetic acid is a colorless, crystalline, water-soluble compound obtained by the reaction of acetic acid with chlorine. It is used to manufacture versatile intermediates required to synthesize chemicals such as carboxymethyl cellulose (CMC), 2, 4-D, glycine, thioglycolic acid, synthetic caffeine and barbiturates. Monochloroacetic acid is a halogenated derivative of acetic acid that is used as a building block in organic synthesis. It exists in three crystal modifications: alpha, beta and gamma. Commercial MCA is produced in the alpha form and is available as flakes or in water solution. Major end-user industries for monochloroacetic acid include oil drilling, personal care, agrochemicals, construction and dyes.**

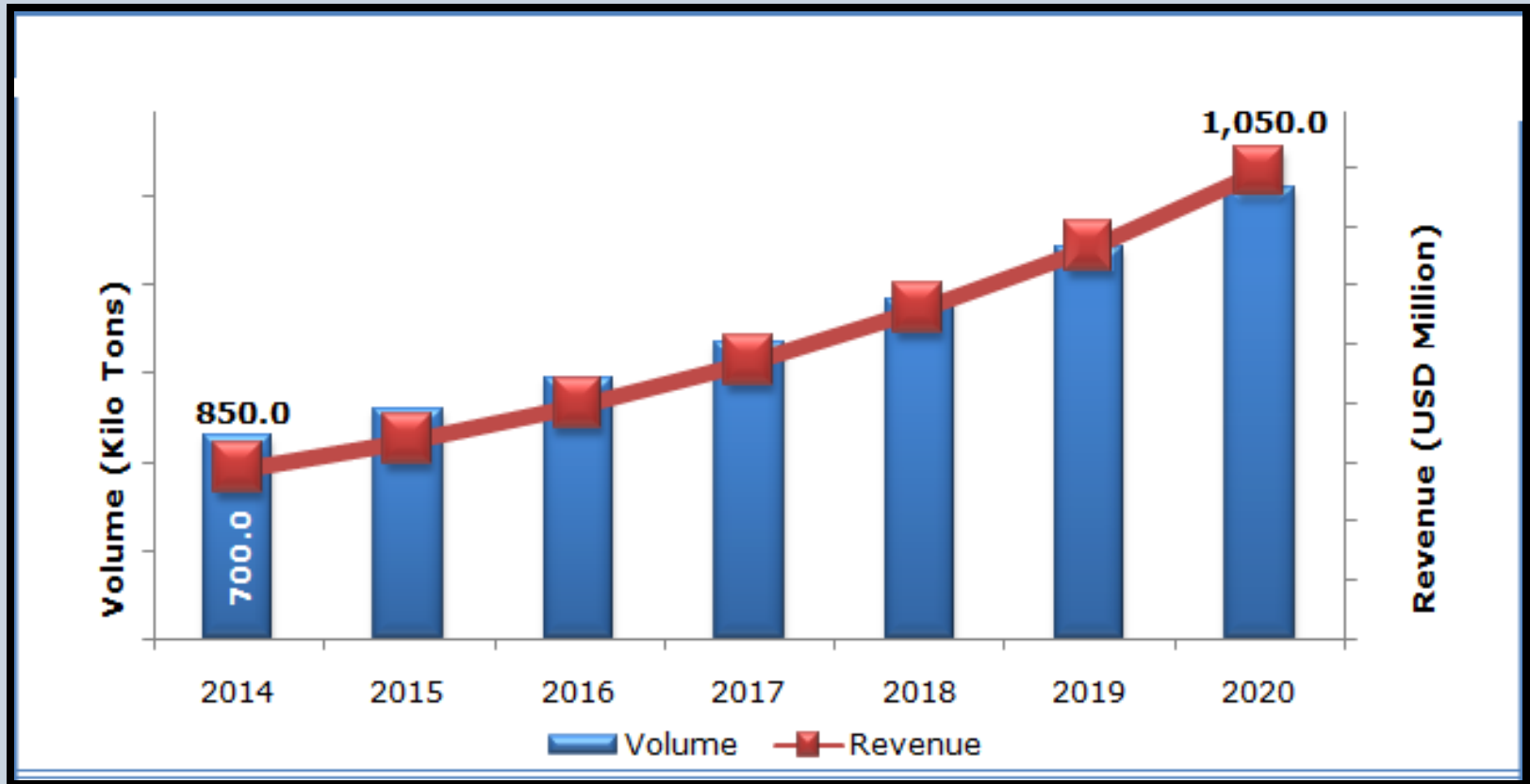
**Monochloroacetic acid is used on a large scale in the production of carboxymethyl cellulose. The extensive use of carboxymethyl cellulose in oil drilling is forecast to drive the global monochloroacetic acid market. The rising demand for agrochemicals such as glyphosate is also expected to augment the monochloroacetic acid market. However, the manufacturers of monochloroacetic acid are constantly challenged by the volatility of the prices of raw materials such as methanol and acetic acid. This will curtail the growth of the market. Chloroacetic acid is used widely in various activities in mining. The rising taconite and iron ore mining activities will create new opportunities for the global monochloroacetic acid market.**

**Monochloroacetic acid (MCA) is broadly used in chemical industries in the manufacture of carboxymethyl cellulose (CMC). Hence, the demand for CMC is expected to rise exponentially due to an increase in industrial applications. Moreover, rising population and increasing demand for agricultural products is expected to trigger growth of monochloroacetic acid. Increasing demand from glyphosate is also likely to boost the demand for monochloroacetic acid during the years to come.**



# Global Monochloroacetic Acid Market, 2014-2020

(Kilo Tons) USD Million



**Cellulosics, agrochemicals, thioglycolic acid, surfactants and others are the key application segments of monochloroacetic acid market. Cellulosics was the largest application market for monochloroacetic acid market. Cellulosics segment accounted for over 30.0% share of total market, in 2014. Agrochemicals application segment is expected to be the second largest segment in this market. Thioglycolic acid, surfactants and others application are also expected to dominate the global monochloroacetic acid market.**



**Being a major intermediate constituent in the synthesis of organic components, it is mainly applied in the production of carboxymethylcellulose and starch as the thickening agent for paper, oil drilling, detergents, pharmaceutical, and food applications. Monochloroacetic acid is also used in the manufacturing of insecticides such as dimethoates, as a raw material for betaine personal care product, in agrochemical production such as MCPA herbicides, thioglycolic acid ester as additives in cosmetics, and thioglycolic acid for UV-light stabilizer and even in synthetics caffeine, glycine, and vitamin and malonates production. This vast scope of application demands large amounts of monochloroacetic acid.**

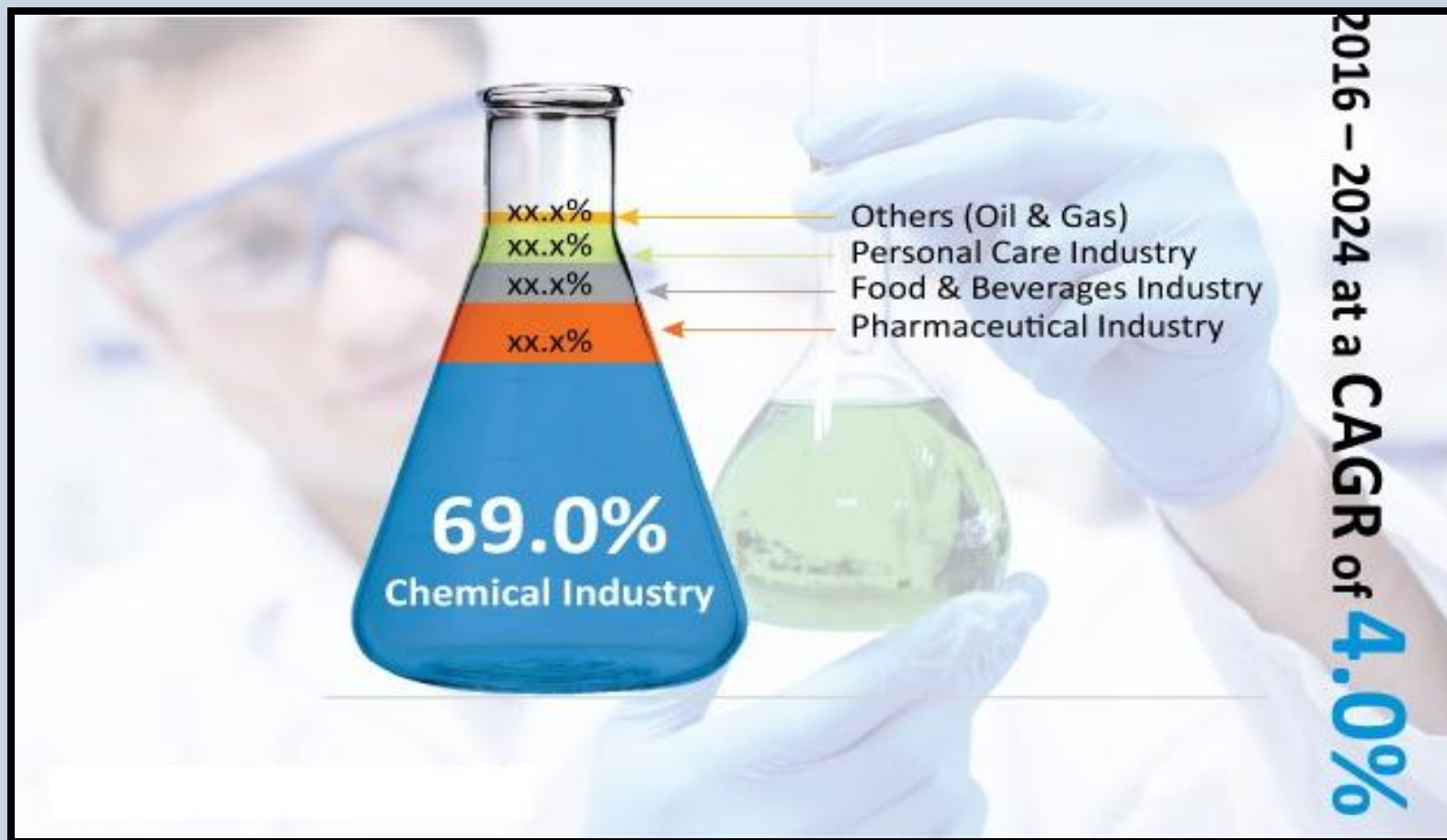


**The global monochloroacetic acid market is mainly driven by increasing demand for the production of carboxymethylcellulose, thioglycolic acid, and glycine. Significant amount of monochloroacetic acid is consumed for the production of CMC, also called as cellulose gel. Use of monochloroacetic acid imparts viscosity boosting and emulsion stabilization properties. Apart from these properties, use of MCAA in CMC production offers alteration of flow and texture of the product. Such attributes impel the use of CMC in the food & beverages industry for applications such as powdered drinks, alcoholic and non-alcoholic beverages, and ice-cream.**

**CMC is also widely preferred over synthetic and natural glues, which is expected to drive its demand, and in turn is expected to increase the consumption of MCAA for CMC production. These factors are likely to boost the revenue growth of the global monochloroacetic acid market over the forecast period.**

**Monochloroacetic acid is a basic raw material for the production of various herbicides and insecticides. Chlorpyrifos and triclopyr are widely used insecticides that are also derived from MCAA. However, the MCAA route to produce symtet generates significant amount of hazardous waste. Also, production facilities that are operated by the MCAA route face challenges such as high operation and maintenance costs that arise due to the corrosive nature of MCAA. Hence, symtet production by the MCAA route is a major challenge for producers operating in the global monochloroacetic acid market.**

# Global Monochloroacetic Acid Market, By Volume Share (%), by End Use Industry (2016)

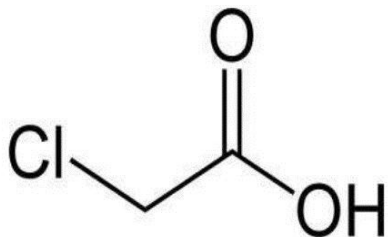


**Pharmaceutical, paper, textiles, personal care, food & beverages, oil & gas, and chemical industries are the primary drivers for the global monochloroacetic acid market. These rapidly growing industries, especially in China and India, will foresee huge industry growth in the coming years. Growing textiles industry on account of changing fashion trends, increasing population and purchasing power parity will further fuel the monochloroacetic acid market demand in future years. Rapid growth in the above-mentioned industries has made China a preferred destination for relocation of global manufacturing facilities. Furthermore, China and India are also agricultural economies and produces synthetic fibers, jute bags, cloth, and yarn. Presence of several such industries are resulting in greater monochloroacetic acid market demand in these countries.**

**Growing population in emerging and change in fashion sense resulted in surge in demand for clothing and textile industry. This also expected to have positive impact on the overall market. Textile industry uses this acid as an intermediate for the fusion of indigo dyes. Betaine amphoteric surfactant which is a byproduct of monochloroacetic acid is used in the production of various hair products. Plastic industry uses monochloroacetic acid for processing PVC resins. Oil & gas industry includes this acid in drilling purposes, which requires carboxy methyl cellulose in bulk. Such diverse range of applications is expected to drive the overall monochloroacetic acid demand over the next seven years. However, volatile raw material prices may emerge as a major concern for the market growth. Ethanol which is one of the most important raw materials used in the production process of this acid is a petroleum product.**

**Agrochemicals segment will witness growth with over 2% CAGR in the forecast period, the segment finds maximum usage in agriculture based economies such as India, China, and Brazil. The monochloroacetic acid market in these regions will grow at an exponential rate owing to high usage of agrochemicals for crop safety and soil fertility. Moreover, they also help to enhance the crop properties and give maximum yield to the farmers. These factors will drive the regional monochloroacetic acid market largely.**

Monochloroacetic acid



# Machinery Photographs



**Centrifuge**



**Storage Tank**





**Boiler**



**Buffer Tank**



# 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	145.00	145.00	Capital	0.00	245.01	245.01	
Buildings	0.00	273.00	273.00	Share Premium	0.00	0.00	0.00	
				Other Type Share				
Plant & Machineries	0.00	313.50	313.50	Capital	0.00	0.00	0.00	
Motor Vehicles	0.00	6.50	6.50	Reserves & Surplus	0.00	0.00	0.00	
Office Automation Equipments	0.00	50.50	50.50	Cash Subsidy	0.00	0.00	0.00	
Technical Knowhow Fees & Exp.	0.00	20.00	20.00	Internal Cash Accruals	0.00	0.00	0.00	
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	735.04	735.04	
Preliminary & Pre-operative Exp	0.00	3.50	3.50	Debentures / Bonds	0.00	0.00	0.00	
Provision for Contingencies	0.00	30.00	30.00	Unsecured Loans/Deposits	0.00	0.00	0.00	
Margin Money - Working Capital	0.00	138.05	138.05					
<b>TOTAL</b>	<b>0.00</b>	<b>980.05</b>	<b>980.05</b>	<b>TOTAL</b>	<b>0.00</b>	<b>980.05</b>	<b>980.05</b>	

# 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	6.16	9.67	16.16	24.00	0.00	100.00	6.16	0.00	6.16	1.00	0.00
2-3	8.70	11.77	24.87	18.00	0.00	100.00	8.70	0.00	8.70	1.00	0.00
3-4	11.30	13.98	36.17	12.00	0.00	100.00	11.30	0.00	11.30	1.00	0.00
4-5	13.86	16.20	50.03	6.00	0.00	100.00	13.86	0.00	13.86	1.00	0.00
5-6	16.36	18.41	66.38	0.00	0.00	100.00	16.36	0.00	16.36	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	1.39	1.39		1.49	1.49	3.82	5.88%	3.35%	2.30%	760.76	11.61%	3.46	1.08	
2-3	1.67	1.53		0.72	0.72	2.47	6.41%	4.26%	2.79%	840.31	10.99%	3.64	1.18	
3-4	2.01	1.67	2.01	0.33	0.33	1.71	6.77%	4.94%	3.17%	959.23	10.98%	3.66	1.31	
4-5	2.42	1.84		0.12	0.12	1.24	7.02%	5.44%	3.46%	1078.15	10.97%	3.60	1.44	
5-6	2.92	2.01		0.00	0.00	0.94	7.19%	5.80%	3.67%	1197.07	10.96%	3.48	1.73	

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	42.23%
Total BEP (% of Installed Capacity)	46.43%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	28.11%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	20.920

# Major Queries/Questions Answered in the Report?

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

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

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Monochloroacetic Acid Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Monochloroacetic Acid Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Monochloro Acetic Acid Manufacturing Business?**

**12. What is the Manufacturing Process of Monochloroacetic Acid?**



**13. What is the total size of land required for setting up Monochloroacetic Acid Manufacturing plant ?**

**14. What will be the income and expenditures for Monochloroacetic Acid Manufacturing Business?**

**15. What are the Projected Balance Sheets of Monochloroacetic Acid Manufacturing plant ?**

**16. What are the requirement of utilities and overheads for setting up Monochloroacetic Acid Manufacturing plant?**

**17. What is the Built up Area Requirement and cost for setting up Monochloroacetic Acid Manufacturing Business?**



**18. What are the Personnel (Manpower) Requirements for setting up Monochloroacetic Acid Manufacturing Business?**

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**21. What is the Break-Even Analysis of Monochloroacetic Acid Manufacturing plant?**

**22. What are the Project financials of Monochloroacetic Acid Manufacturing Business?**

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- 24. What is the Sensitivity Analysis-Price/Volume of Monochloroacetic Acid Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Monochloroacetic Acid Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Monochloroacetic Acid Manufacturing project?**

- 27. What are the Market Opportunities for setting up Monochloroacetic Acid 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**
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# 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 Monochloroacetic Acid.” provides an insight into Monochloroacetic Acid market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Monochloroacetic Acid project. The report assesses the market sizing and growth of the Indian Monochloroacetic Acid 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 Monochloroacetic Acid sector in India along with its business prospects. Through this report we have identified Monochloroacetic Acid project as a lucrative investment avenue.**

# Tags

Manufacture of Monochloroacetic Acid, Monochloroacetic Acid Manufacturing Process, Monochloroacetic Acid Uses, Process for Preparing Monochloroacetic Acid, Monochloroacetic Acid, Chloroacetic Acid, Monochloroacetic Acid Production, Monochloroacetic Acid (Mca) Manufacturing Plant, Monochloroacetic Acid Production Process, Process for Production of Monochloroacetic Acid, Start MCA Production in India, Mono Chloro Acetic Acid, Monochloroacetic Acid Manufacture, Production of Chloroacetic Acid, Chemicals and Petrochemicals Industry Business Opportunities, Monochloroacetic Acid Market Opportunities, Production of Chloroacetic Acid, Mono Chloro Acetic Acid Plant, Process for Manufacturing Monochloroacetic Acid, Chloroacetic Acid Production, Chloroacetic Acid Manufacturing Business, Chloroacetic Acid (Monochloroacetic Acid), Monochloroacetic Acid Industry, Manufacture of MCAA (Monochloroacetic Acid), Monochloroacetic Acid Production project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Chloroacetic Acid Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries,

How to Start Chloroacetic Acid Manufacturing Industry in India, Monochloroacetic Acid Production Projects, New project profile on Chloroacetic Acid Manufacturing industries, Project Report on Chloroacetic Acid Manufacturing Industry, Detailed Project Report on Monochloroacetic Acid Production, Project Report on Chloroacetic Acid Manufacturing, Pre-Investment Feasibility Study on Monochloroacetic Acid Production, Techno-Economic feasibility study on Chloroacetic Acid Manufacturing, Feasibility report on Chloroacetic Acid Manufacturing, Free Project Profile on Monochloroacetic Acid Production, Project profile on Monochloroacetic Acid Production, Download free project profile on Monochloroacetic Acid Production, Startup Project for Chloroacetic Acid Manufacturing, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel

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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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- **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](#)**



# 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**



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