

# Zinc Chloride Manufacturing Industry.

## Chemical Business Ideas & Opportunities

*Zinc Chloride Market is expected to Increase at a CAGR of 4.6 % during the 2018 - 2028*





**ZINC CHLORIDE**



**ZnCl<sub>2</sub>**



# Introduction

**Zinc chloride ( $\text{ZnCl}_2$ ) is an important compound and it exists in its nine crystalline forms which are either colorless or white. It is actually a granular powder which we get by heating calcium chloride and zinc sulfate together. It has a specific gravity of 2.75, a pH of 4 and a burning taste. The anhydrous zinc chloride which is white is known for its solubility in water. This compound, which is deliquescent has several applications and the main uses include chemical synthesis and textile processing. It is soluble in many mediums, like water, alcohol, glycerol, and ether.**



## *Some uses of this chemical are as follows:*

- **Organic Product Synthesis** - Synthesis of organic products in the laboratory, mainly as a moderate strength Lewis acid reaction, and several other reactions.
- **Chemical** - It is used in the production of ethylacetate. It is also used as condensing agent for the production of organic dye-stuff. It is used as a stabilizing agent for diazonium compounds. It is used for the production of active carbon. It is used for Friedel Craft Reaction, Azotropic or Azeotropic Distillation, Desiccation.
- **Textile Processing Industry** - 64% zinc chloride in water is used to dissolve starch, silk, and cellulose. It has many other applications in textile processing industry.
- **Dry Cell** - It is used in dry cell batteries as an electrolyte.

- **Petroleum** - It is a powerful emulsion breaker. It separates oil from water
- **Chemical Industry** - it is used to prepare ethyl acetate. It is also used in the manufacturing of dyes, and many other industrial intermediate chemicals.
- **As a metallurgical flux** - Zinc chloride has the ability to attack metal oxides (MO) to give derivatives of the formula  $MZnOCl_2$ . This reaction is relevant to the utility of  $ZnCl_2$  as a flux for soldering. It is used in fluxes for galvanizing, soldering and tinning.
- **Herbicide** - Zinc Chloride is used as an herbicide. It is used to control lichen and moss growing on the roofs of houses and other domestic dwellings, along walks, driveways, fences, and wherever moss grows.

**Zinc chloride has wide range of applications in various end-user industries. Some of applications include Soldering, galvanizing and tinning of fluxes. Heat decomposes moist fluxes based on zinc chloride which forms hydrochloric acid. This acid helps removal of salts and oxides from metal surfaces which help in good metal-to-metal bonding. Odor control is another application of zinc chloride due to which it is in high demand in the market. The reaction of zinc chloride with sulfide minimizes the release of H<sub>2</sub>S gas in waste water treatment facilities, thus controlling odor. Vulcanization of rubber is the major application of zinc chloride among others.**

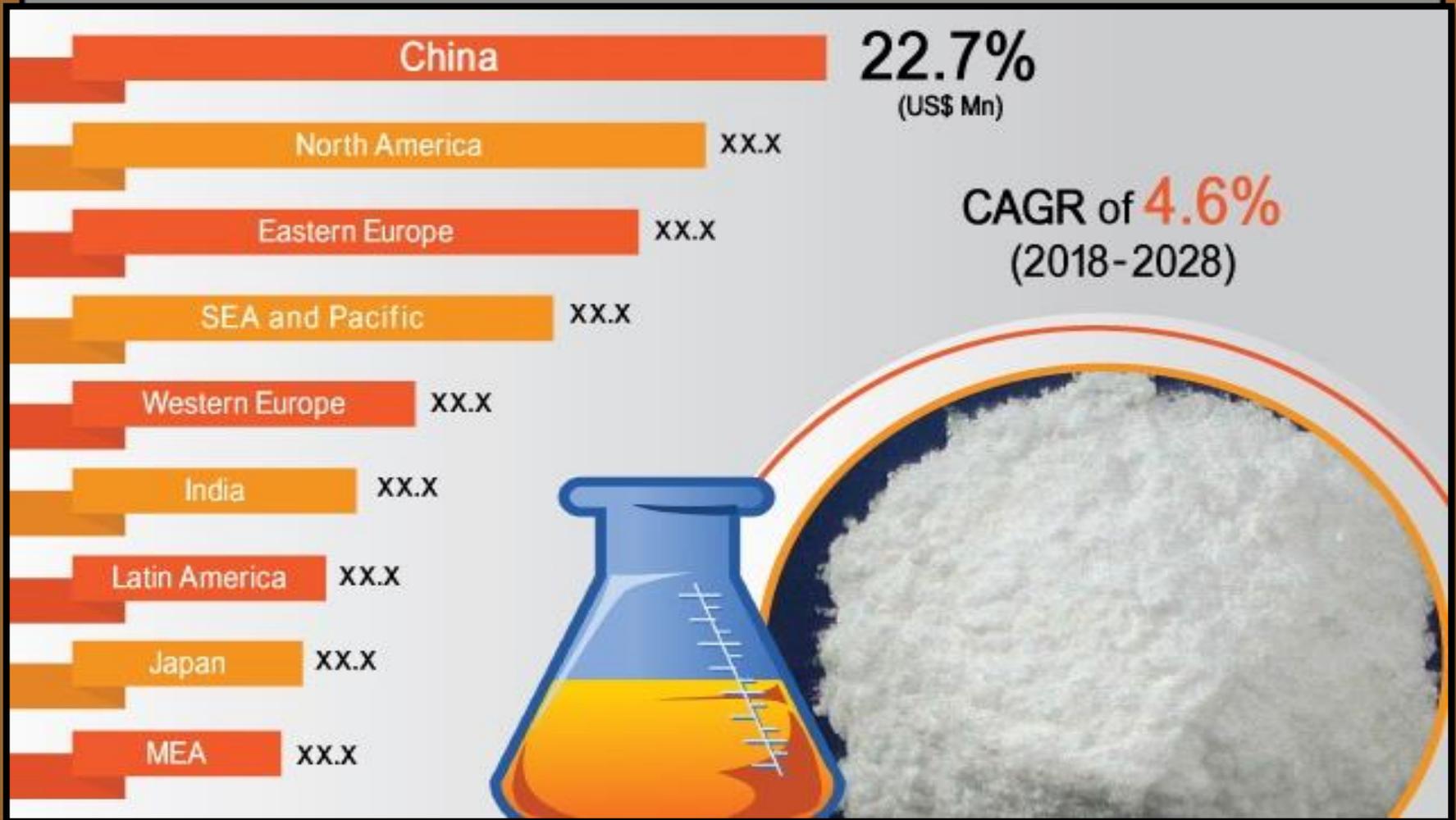
**Zinc chloride is widely used in the rubber industry. Zinc chloride helps dissolve cellulosic fibers in the scrap and catalyzes depolymerization of the elastomer. Zinc chloride is used for many other applications such as organic synthesis, as liquid fertilizer, for textile finishing, as wood preservative and for dry cell batteries**

# **Market Outlook**

**Growing demand for zinc chloride from the chemical industry is anticipated to boost the growth of global zinc chloride market. Escalating demand from the textile industry is another factor contributing to the demand for zinc chloride in the market. Side effects of zinc chloride and availability of safer alternatives is expected to hinder the growth of global zinc chloride market. However, rising research and development activities for applications of zinc chloride is projected to fuel market growth during the forecast period.**

**On the basis of type, the high purity grade zinc chloride segment is projected to witness a relatively higher growth rate. High purity based powder and solution form zinc chloride are used for different applications, including galvanizing and soldering fluxes. Thus, they are projected to gain significant shares over the forecast period. The battery grade segment is projected to witness moderate growth.**

# Global Zinc Chloride Market Revenue, By Region, 2017 (US\$ Mn)





**Increasing demand for zinc chloride from petroleum industry to separate oil from water due to its emulsion breaker property is a major factor expected to drive growth of the global zinc chloride market. In addition, growing demand from electronic, agriculture and chemical sectors is expected to support growth of the global zinc chloride market. Furthermore, increasing adoption from of zinc chloride in dry cell batteries as an electrolyte in automotive sector, and increasing use of zinc chloride as dehydrating agent are other factors expected to support growth of the global zinc chloride market.**

**ZINC CHLORIDE**



**Global sales of zinc chloride is valued at US\$ 270.9 Mn by the end of 2018 – witnessing Y-o-Y growth of 4.6% over 2017. Global Zinc Chloride market size will increase to Million US\$ by 2025, from Million US\$ in 2017, at a CAGR of during the forecast period.**

**The growing footprint of the chemical industry is a key reason contributing to the demand growth of metal based chemicals. Zinc chemical demand has been growing over the last few years as these solvents are used for different applications such as galvanizing, soldering and tinning fluxes, odour control, vulcanized fibre, and textile finishing, among others.**



**On the basis of end use, the global zinc chloride market is projected to be dominated by the chemical segment. Zinc chloride is widely used in the chemical industry for galvanizing fluxes, soldering and tinning fluxes, odour control, vulcanized fibre and textile finishing, among others. Agriculture and electronic industries are also projected to gain high traction over the forecast period. The pharmaceutical segment is projected to witness a relatively moderate growth rate over the forecast period.**

**Some of the key players in the zinc chloride market include Zaclon LLC, America Elements, TIB Chemicals AG, Global Chemicals Co. Ltd., P.T. Indo Lysaght, Apex Chemicals Corporation, Lipmes, Weifang Dongfangsheng Chemical Co., Ltd., Eurocontal SA, and others. Most manufacturers are venturing into developing economies such as Brazil, Poland, India, and other GCC countries to gain a competitive advantage and to expand their presence.**

# Machinery Photographs



**Evaporator**



**Boiler**



**Centrifuge**



**Condenser**

# 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				Capital	0.00	61.44	61.44
Development Exp.	0.00	0.00	0.00	Share Premium	0.00	0.00	0.00
Buildings	0.00	0.00	0.00	Other Type Share			
Plant & Machineries	0.00	146.50	146.50	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	28.25	28.25	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	184.33	184.33
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	13.15	13.15	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	27.88	27.88				
<b>TOTAL</b>	<b>0.00</b>	<b>245.78</b>	<b>245.78</b>	<b>TOTAL</b>	<b>0.00</b>	<b>245.78</b>	<b>245.78</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				
1-2	4.17	9.13	14.17	24.00	0.00	100.00	4.17	0.00	4.17	1.00	0.00
2-3	7.06	11.34	21.22	18.00	0.00	100.00	7.06	0.00	7.06	1.00	0.00
3-4	9.94	13.64	31.16	12.00	0.00	100.00	9.94	0.00	9.94	1.00	0.00
4-5	12.70	15.91	43.86	6.00	0.00	100.00	12.70	0.00	12.70	1.00	0.00
5-6	15.32	18.11	59.19	0.00	0.00	100.00	15.32	0.00	15.32	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		
Initial	(Number of times)			(Number of times)	%	%	%	%	%	%	%			
1-2	1.34	1.34		3.00	3.00	3.59	6.42%	2.44%	2.03%	253.01	20.11%	3.30	1.05	
2-3	1.62	1.47		0.85	0.85	2.31	7.67%	4.27%	2.95%	295.13	20.11%	3.54	1.19	
3-4	1.97	1.62	1.97	0.39	0.39	1.52	8.50%	5.57%	3.64%	337.29	20.11%	3.58	1.35	
4-5	2.38	1.79		0.14	0.14	1.04	9.04%	6.47%	4.14%	379.46	20.11%	3.51	1.54	
5-6	2.88	1.97		0.00	0.00	0.74	9.40%	7.10%	4.49%	421.62	20.11%	3.36	1.97	



# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	60.64%
Total BEP (% of Installed Capacity)	64.71%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	26.54%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	21.167

# Major Queries/Questions Answered in the Report?

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

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

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

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

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Zinc Chloride Manufacturing Business?**

**12. What is the Manufacturing Process of Zinc Chloride?**

- 13. What is the total size of land required for setting up Zinc Chloride Manufacturing plant ?**
- 14. What will be the income and expenditures for Zinc Chloride Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Zinc Chloride 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 Zinc Chloride.” provides an insight into Zinc Chloride market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Zinc Chloride project. The report assesses the market sizing and growth of the Indian Zinc Chloride 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 Zinc Chloride sector in India along with its business prospects. Through this report we have identified Zinc Chloride project as a lucrative investment avenue.**

# Tags

#Zinc\_Chloride\_Production\_and\_Application, #Zinc\_Chloride\_(Zncl2), Zinc Chloride Uses, #Zinc\_Chloride\_Formula, #Zinc\_Chloride\_Manufacturing\_Process, #Manufacture\_of\_Zinc\_Chloride, #Zinc\_Chloride\_Production, Zinc Chloride, Chemical Compound, Manufacturing of Zinc Chloride, Production of Zinc Chloride, Zinc Chloride Manufacture, Production and Use of Zinc Chloride, Zinc Chloride Manufacturing, Zinc Chloride Industry, Zinc Chloride Manufacturing Plant, Preparation and Application of Zinc Chloride, Process for Making Zinc Chloride, Process of Manufacturing Zinc Chloride, Zinc Chloride Uses, Project Report on Zinc Chloride Manufacturing Industry, Detailed Project Report on Zinc Chloride Manufacturing Business, #Project\_Report\_on\_Zinc\_Chloride\_Production, Pre-Investment Feasibility Study on Zinc Chloride Manufacturing Business, Techno-Economic feasibility study on Zinc Chloride Production, #Feasibility\_report\_on\_Zinc\_Chloride\_Production, Free Project Profile on Zinc Chloride Production, #Project\_profile\_on\_Zinc\_Chloride\_Manufacturing\_Business, Download free project profile on Zinc Chloride Production, Zinc Chloride Manufacturing Business Opportunities, #Zinc\_Chloride\_Manufacturing\_Business, Zinc Chloride Manufacture in India, Zinc Chloride Manufacture & Factory

**Niir Project Consultancy Services (NPCS)**

**can provide Detailed Project Report on**

**Zinc Chloride Manufacturing Industry.**

**Chemical Business Ideas &**

**Opportunities**

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**See more**

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

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



## 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

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