Zinc Sulphate (Agriculture Grade) Manufacturing Business.

Agro Chemicals.

Zinc Sulphate (White Vitriol) Fertilizer.
**Introduction**

Zinc sulphate heptahydrate (Zn-21%) is recommended for soil application at the rate prescribed by the State Agricultural Universities/Soil Testing Laboratories.

The dose varies across the states from 25 to 60 kg/ha depending on soil type, cropping intensity and crop productivity levels, to be applied once in two years.

Zinc is a naturally occurring mineral. Zinc is important for growth and for the development and health of body tissues. Zinc sulfate is used to treat and to prevent zinc deficiency. Zinc sulfate may also be used for purposes not listed in this medication guide.
Zinc sulfate is the inorganic compound with the formula ZnSO₄ as well as any of three hydrates. It was historically known as "white vitriol". All of the various forms are colorless solids. The heptahydrate is commonly encountered. It is on the World Health Organization's List of Essential Medicines, a list of the most important medication needed in a basic health system.

Zinc sulfate is a zinc salt that has many uses as a medication or nutritional supplement. Zinc sulfate is often prescribed for individuals deficient in the mineral zinc. Zinc sulfate is also used to treat acne, due to its anti-inflammatory and wound-healing properties.
Zinc sulfate is a powder that is colorless and completely water-soluble. The product can be used in different applications, including some connected with maintaining good health. A number of over the counter products contain some level of zinc sulfate, as well as many prescription medications.

One application of zinc sulfate that may surprise some people is the use of the powder as a means to preserve wood products. The properties of the sulfate help it permeate the body of the wood and help to protect it from wear and tear from regular use as well as adverse weather conditions.
The sulfate can be used safely with just about any type of wood product and eliminates the necessity of using other preservatives that have in recent years been proven to have adverse effects on the health of human beings.
Chemical Formula:

Zinc Sulfate 33 % : ZnSO$_4$$\cdot$H$_2$O,

Zinc Sulfate 21 % : ZnSO$_4$ • 7H$_2$O

Zinc Sulfate 12 % : ZnSO$_4$ in solution.
Market Outlook

Zinc Sulphate is used in agriculture as a weed killer and to give protection against pests. It is used to supply zinc in animal feeds and fertilizers; Zinc Sulphate is also an important constituent of the precipitating bath in the manufacture of viscose rayon and in electrolyte for zinc plating. Zinc Sulphate functions as a mordant in dyeing; as a preservative for skins and leather; and as an astringent and emetic in medicine.
Zinc sulphate is an inorganic compound which is colorless, water soluble powder and crystalline and having a chemical formula of ZnSO$_4$. Zinc Sulphate comes from zinc which is a naturally occurring mineral from the earth surface, food and water and it is mostly recognized for the growth and development of human health issues. Zinc Sulphate is typically used in healthcare industries in the treatment of zinc deficiencies. It is also considered as an important mineral for plant nutrition, human and animal. Zinc sulphate can also be used as a fertilizer in the agriculture, pharmaceutical and for commercial purpose.
The demand for zinc sulphate is expected to rise in the coming years in agricultural and healthcare sector. Zinc sulphate is considered as an important element for human health, plant nutrition and for animals. The deficiency of zinc in the infant segment has created a threat to human health in many countries, through which the demand for zinc sulphate has risen over the globe particularly in agriculture as a fertilizer. Zinc sulphate can be used in various application related to health issues but if the intake of zinc sulphate is more than actual than it can be dangerous to health.
Along with this, the decreasing rate of arable land has increased the demand for zinc sulphate to meet the current demand for global crop yields and food consumption. Due to this the demand for zinc sulphate has increased in the agricultural applications. These trends are contributing the global zinc sulphate market to have strong demand in the coming years.

Zinc sulphate is a very versatile compound and has wide range of applications in various industries such as healthcare, pharmaceutical, agriculture, chemicals and others. Zinc sulphate is mostly used as a medicine in healthcare industries in order to prevent the zinc deficiency in a human body and diseases related to skin.
In pharmaceutical industries, zinc sulphate is used to prepare medicines. Considering agricultural sector, it can also be used a major fertilizer for plant nutrition.

The demand for zinc sulphate in the Middle East & Africa has seen an intensive growth due to the huge population of African region is suffering from zinc deficiency and other health related issues. Along with this the government has taken very positive initiatives to come up with the solutions to get over with diseases. Due to this factor the agriculture and healthcare sector can have a fruitful scope to capture the market.
Asia-Pacific is considered to the fastest growing market. China is one of the major suppliers of zinc sulphate. Moreover as in Agriculture, India can be a strong market for zinc sulphate as huge population is engaged in the activities related to farming and agriculture. Increasing use as a fertilizer has made the biggest demand growth and in the production for human food and animal feed.
Average Crop Yield advantage due to application of Zinc Sulphate recommended level with full dose of NPK

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<th>State</th>
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<th>Yield increase (kg/ha)</th>
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<td>Wheat</td>
<td>394</td>
<td>339</td>
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<tr>
<td>Haryana</td>
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<td>Wheat</td>
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## Project at a Glance

### Project at a Glance

#### Cost of Project

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#### Means of Finance

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## Project at a Glance

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<th>Retained Earnings</th>
<th>Payout</th>
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## Project at a Glance

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<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Asset Turnover Ratio</th>
<th>Current Ratio</th>
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<td></td>
<td>Individually</td>
<td>Cumulative</td>
<td>Overall</td>
<td>(Number of times)</td>
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## Project at a Glance

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<td><strong>Cash BEP (% of Installed Capacity)</strong></td>
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<tr>
<td><strong>Total BEP (% of Installed Capacity)</strong></td>
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<tr>
<td><strong>IRR, PAYBACK and FACR</strong></td>
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<td><strong>Internal Rate of Return .. ( In %age )</strong></td>
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<td><strong>Payback Period of the Project is ( In Years )</strong></td>
<td>2 Years 3 Months</td>
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<td><strong>Fixed Assets Coverage Ratio ( No. of times )</strong></td>
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1. What is Zinc Sulphate (Agriculture Grade) Manufacturing industry?

2. How has the Zinc Sulphate (Agriculture Grade) Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Zinc Sulphate (Agriculture Grade) Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?
5. What is the structure of the Zinc Sulphate (Agriculture Grade) Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

7. What are the operating costs for setting up Zinc Sulphate (Agriculture Grade) Manufacturing project?

8. What are the machinery and equipment requirements for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

10. What are the requirements of raw material for setting up Zinc Sulphate (Agriculture Grade) Manufacturing Business?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

12. What is the Manufacturing Process of Zinc Sulphate (Agriculture Grade)?
13. What is the total size of land required for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

14. What will be the income and expenditures for Zinc Sulphate (Agriculture Grade) Manufacturing plant?

15. What are the Projected Balance Sheets of Zinc Sulphate (Agriculture Grade) Manufacturing Project?

16. What are the requirement of utilities and overheads for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Zinc Sulphate (Agriculture Grade) Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Zinc Sulphate (Agriculture Grade) Manufacturing Business?

19. What are Statistics of Import & Export for Zinc Sulphate (Agriculture Grade)?

20. What is the time required to break-even of Zinc Sulphate (Agriculture Grade) Manufacturing plant?

21. What is the Break-Even Analysis of Zinc Sulphate (Agriculture Grade) Manufacturing plant?

22. What are the Project financials of Zinc Sulphate (Agriculture Grade) Manufacturing Business?
23. What are the Profitability Ratios of Zinc Sulphate (Agriculture Grade) Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of Zinc Sulphate (Agriculture Grade) Manufacturing project?

25. What are the Projected Pay-Back Period and IRR of Zinc Sulphate (Agriculture Grade) Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Zinc Sulphate (Agriculture Grade) Manufacturing project?
27. What are the Market Opportunities for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

28. What is the Market Study and Assessment for setting up Zinc Sulphate (Agriculture Grade) Manufacturing plant?

29. What is the Plant Layout for setting up Zinc Sulphate (Agriculture Grade) Manufacturing Business?
Table of Contents of the Project Report
1. PROFILE & GEOTECHNICAL SITE CHARACTERIZATION

1.1. GENERAL:

1.2. GEOGRAPHY:

1.3. MAP:

1.4. DEMOGRAPHICS:

1.5. TRANSPORT AND COMMUNICATION:

2. INTRODUCTION

3. ZINC SULFATE

3.1. CHEMICAL FORMULA:

3.2. SYNONYMS:

4. APPLICATION

5. GENERAL SPECIFICATIONS

5.1. ZINC SULPHATE SOLUTION 12%

5.2. ZINC SULPHATE HEPTAHYDRATE 21%
5.3. ZINC SULPHATE MONOHYDRATE 33%

6. B.I.S. SPECIFICATION

6.1. IS: 8249 -1976 - ZINC SULPHATE (AGRICULTURE GRADE)

7. MARKET SURVEY

8. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES

8.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
8.2. PROFITS & APPROPRIATIONS
8.3. TOTAL LIABILITIES
8.4. TOTAL ASSETS
8.5. NET CASH FLOW FROM OPERATING ACTIVITIES
8.6. SECTION – I
8.6.1. Name of Company with Contact Details
8.6.2. Name of Director(s)
8.6.3. Plant Capacity
8.6.4. Location of Plant
8.6.5. Name of Raw Material(s) Consumed with Quantity & Cost
8.7. SECTION – II
8.7.1. Income & Expenditure
8.7.2. Profits
8.7.3. Forex Transaction
8.7.4. Liabilities
8.7.5. Assets
8.7.6. Growth in Income & Expenditure
8.7.7. Growth in Assets & Liabilities
8.7.8. Profitability Ratio
8.7.9. Cash Flow
8.7.10. Cost as % ge of sales
8.7.11. Return Ratios
8.7.12. Structure of Assets & Liabilities (%)
8.7.13. Working Capital & Turnover Ratios

9. EXPORT & IMPORTS STATISTICS DATA OF INDIA

9.1. EXPORT STATISTICS DATA ON ZINC SULPHATE
9.2. IMPORT STATISTICS DATA ON ZINC SULPHATE

10. PRESENT MANUFACTURERS
11. RAW MATERIAL DETAILS

12. DIFFERENT TYPE OF ZINC ASH

12.1. ZINC FOR CROP PRODUCTION

13. MANUFACTURING PROCESS

13.1. TECHNOLOGICAL PROCESS CONSISTS FROM:
13.2. PRODUCTION MACHINERY INVOLVE ARE:
13.3. MATERIAL PREPARATION
13.4. PACKING

14. PROCESS FLOW DIAGRAM

15. ZINC DEFICIENCY EFFECTIVE CONDITION

15.1. SOIL CONDITIONS AND THE NEED FOR ZINC FERTILIZERS
15.2. PREDICTING THE NEED FOR ZINC

16. SOURCES OF ZINC
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<td>17. PLANT &amp; MACHINERY DESCRIPTION</td>
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<td>18. SUPPLIERS OF RAW MATERIALS</td>
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<td>19. SUPPLIERS OF PLANT &amp; MACHINERY</td>
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<td>20. PLANT LAYOUT</td>
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<td>21.1. PRODUCT PHOTOGRAPHS</td>
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<td>21.2. MACHINERY PHOTOGRAPHS</td>
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<td>21.3. RAW MATERIAL PHOTOGRAPHS</td>
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Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building

Annexure

Factory Land & Building
Site Development Expenses

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• **Plant & Machinery**
  - Indigenous Machineries
  - Other Machineries (Miscellaneous, Laboratory etc.)

• **Other Fixed Assets**
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies

• **Working Capital Requirement Per Month**
  - Raw Material
  - Packing Material
  - Lab & ETP Chemical Cost
  - Consumable Store
• Overheads Required Per Month and Per Annum…………………………8
  Utilities & Overheads (Power, Water and Fuel Expenses etc.)
  Royalty and Other Charges
  Selling and Distribution Expenses

• Salary and Wages .................................................................9

• Turnover Per Annum ..........................................................10

• Share Capital........................................................................11

  Equity Capital
  Preference Share Capital
• Annexure 1 :: Cost of Project and Means of Finance

• Annexure 2 :: Profitability and Net Cash Accruals

- Revenue/Income/Realisation
- Expenses/Cost of Products/Services/Items
- Gross Profit
- Financial Charges
- Total Cost of Sales
- Net Profit After Taxes
- Net Cash Accruals
• Annexure 3 :: Assessment of Working Capital requirements

- Current Assets
- Gross Working Capital
- Current Liabilities
- Net Working Capital
- Working Note for Calculation of Work-in-process

• Annexure 4 :: Sources and Disposition of Funds
• Annexure 5 :: Projected Balance Sheets
  - ROI (Average of Fixed Assets)
  - RONW (Average of Share Capital)
  - ROI (Average of Total Assets)

• Annexure 6 :: Profitability Ratios
  - D.S.C.R
  - Earnings Per Share (EPS)
  - Debt Equity Ratio

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Annexure 7 :: Break-Even Analysis

- Variable Cost & Expenses
- Semi-Variable/Semi-Fixed Expenses
- Profit Volume Ratio (PVR)
- Fixed Expenses / Cost
- B.E.P
• Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume

- Resultant N.P.B.T
- Resultant D.S.C.R
- Resultant PV Ratio
- Resultant DER
- Resultant ROI
- Resultant BEP
• Annexure 12 :: Shareholding Pattern and Stake Status
  ▪ Equity Capital
  ▪ Preference Share Capital
• Annexure 13 :: Quantitative Details-Output/Sales/Stocks
  ▪ Determined Capacity P.A of Products/Services
  ▪ Achievable Efficiency/Yield % of Products/Services/Items
  ▪ Net Usable Load/Capacity of Products/Services/Items
  ▪ Expected Sales/ Revenue/ Income of Products/ Services/ Items
• Annexure 14 :: Product wise Domestic Sales Realisation
• Annexure 15 :: Total Raw Material Cost
• Annexure 16 :: Raw Material Cost per unit
• Annexure 17 :: Total Lab & ETP Chemical Cost
• Annexure 18 :: Consumables, Store etc.
• Annexure 19 :: Packing Material Cost
• Annexure 20 :: Packing Material Cost Per Unit
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<td>24</td>
<td>Royalty &amp; Other Charges</td>
</tr>
<tr>
<td>25</td>
<td>Repairs &amp; Maintenance Expenses</td>
</tr>
<tr>
<td>26</td>
<td>Other Manufacturing Expenses</td>
</tr>
<tr>
<td>27</td>
<td>Administration Expenses</td>
</tr>
<tr>
<td>28</td>
<td>Selling Expenses</td>
</tr>
</tbody>
</table>
• Annexure 29 :: Depreciation Charges – as per Books (Total)
• Annexure 30 :: Depreciation Charges – as per Books (P & M)
• Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)
• Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)
• Annexure 33 :: Interest and Repayment - Term Loans
• Annexure 34 :: Tax on Profits
• Annexure 35 :: Projected Pay-Back Period and IRR
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 its 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.
The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Zinc Sulphate (Agriculture Grade)” provides an insight into the Zinc Sulphate (Agriculture Grade) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Zinc Sulphate (Agriculture Grade) project. The report assesses the market sizing and growth of the Indian Zinc Sulphate (Agriculture Grade) 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 Sulphate (Agriculture Grade) sector in India along with its business prospects. Through this report we have identified Zinc Sulphate (Agriculture Grade) project as a lucrative investment avenue.

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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.

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- Turnkey Project Consultancy/Solutions
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- We use authentic & reliable sources to ensure business precision
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- Requirement collection
- Thorough analysis of the project
- Economic feasibility study of the Project
- Market potential survey/research
- Report Compilation
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