

# Production of Aluminium

## Fluoride

*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, Plant Layout, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis*

# Introduction

Aluminium fluoride ( $\text{AlF}_3$ ) is an inorganic compound used primarily in the production of aluminium. This colorless solid can be prepared synthetically but also occurs in nature as minerals rosenbergite and oskarssonite.

Aluminium fluoride is the chemical compound with the formula  $\text{AlF}_3$ . It has the consistency of a white powder.  $\text{AlF}_3$  is refractory, in strong contrast to the other halides of aluminium.

Adding aluminium fluoride to the production process of primary aluminium lowers the consumption of electricity required in the smelting process and thereby considerably contributes to the reduction of production costs of aluminium. Aluminium producers (smelters) are the main users of aluminium fluoride.

Aluminium fluoride is used in many industrial processes. It is one of the minor constituents added to the electrolytic cells during the production of metallic aluminium. Aluminium fluoride is used in turning alumina into aluminium.



# **Market Outlook**

Aluminum fluoride is white colored or colorless solid powder that can be produced synthetically and is also found in nature with minerals such as rosenbergite. Alumina and hexafluorosilicic acid are among the vital raw materials that go into the production of aluminum fluoride.



China is the leading manufacturer of aluminum fluoride across the globe and constitutes significant portion of the global market share. Moreover owing to over exploitation of major raw material sources in China, the production is anticipated to decline in the near future.

High GDP growth and increasing disposable income in India and China have led to high growth in several end user industries including automobiles, pharmaceutical, packaging, aerospace, construction among others. High growth in end user industries is expected to be among foremost factors driving demand for aluminum fluoride in the region.

Demand for aluminum fluoride in North America and Europe is anticipated to grow at a sluggish rate during the forecast period. Underutilized fluorspar reserves in South Africa coupled with increasing government support to invest in the reserves is expected to drive market growth for aluminum fluoride in the Row region. Moreover, increasing demand for aluminum fluoride driven by high growth in several end user industries in the rapidly industrializing economies of South America and Africa will likely present massive growth opportunities for players in the aluminum fluoride market.



# Few Indian Major Players are as under

- Alufluoride Ltd.
- Mafatlal Fine Spg. & Mfg. Co. Ltd.
- Navin Fluorine Intl. Ltd.
- Southern Petrochemical Inds. Corpn. Ltd.
- Tanfac Industries Ltd.

# Project at a Glance

| Particulars                     | Existing    | Proposed       | Total          | Particulars                 | Existing    | Proposed       | Total          |
|---------------------------------|-------------|----------------|----------------|-----------------------------|-------------|----------------|----------------|
| Land & Site Development Exp.    | 0.00        | 270.00         | 270.00         | Capital                     | 0.00        | 874.01         | 874.01         |
| Buildings                       | 0.00        | 623.60         | 623.60         | Share Premium               | 0.00        | 0.00           | 0.00           |
| Plant & Machineries             | 0.00        | 1738.50        | 1738.50        | 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        | 149.50         | 149.50         | Cash Subsidy                | 0.00        | 0.00           | 0.00           |
| Technical Knowhow Fees & Exp.   | 0.00        | 100.00         | 100.00         | Internal Cash Accruals      | 0.00        | 0.00           | 0.00           |
| Franchise & Other Deposits      | 0.00        | 0.00           | 0.00           | Long/Medium Term Borrowings | 0.00        | 2622.02        | 2622.02        |
| Preliminary & Pre-operative Exp | 0.00        | 8.00           | 8.00           | Debentures / Bonds          | 0.00        | 0.00           | 0.00           |
| Provision for Contingencies     | 0.00        | 140.00         | 140.00         | Unsecured Loans/Deposits    | 0.00        | 0.00           | 0.00           |
| Margin Money - Working Capital  | 0.00        | 451.43         | 451.43         |                             |             |                |                |
| <b>TOTAL</b>                    | <b>0.00</b> | <b>3496.03</b> | <b>3496.03</b> | <b>TOTAL</b>                | <b>0.00</b> | <b>3496.03</b> | <b>3496.03</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  | 5.67       | 9.89  | 15.67      | 24.00 | 0.00      | 100.00            | 5.67  | 0.00   | 5.67                  | 1.00        | 0.00                   |
| 2-3  | 8.18       | 11.83 | 23.85      | 18.00 | 0.00      | 100.00            | 8.18  | 0.00   | 8.18                  | 1.00        | 0.00                   |
| 3-4  | 10.76      | 13.92 | 34.61      | 12.00 | 0.00      | 100.00            | 10.76 | 0.00   | 10.76                 | 1.00        | 0.00                   |
| 4-5  | 13.32      | 16.06 | 47.93      | 6.00  | 0.00      | 100.00            | 13.32 | 0.00   | 13.32                 | 1.00        | 0.00                   |
| 5-6  | 15.82      | 18.20 | 63.75      | 0.00  | 0.00      | 100.00            | 15.82 | 0.00   | 15.82                 | 1.00        | 0.00                   |



# Project at a Glance

| Year    | D. S. C. R.       |                |             | Debt /<br>-<br>Deposits<br>Debt | Equity<br>as-<br>Equity | Total<br>Net<br>Worth | Retur<br>n on<br>Net<br>Worth | Profitability Ratio |       |         |                         |              | Assets<br>Turnov<br>er<br>Ratio | Curre<br>nt<br>Ratio |
|---------|-------------------|----------------|-------------|---------------------------------|-------------------------|-----------------------|-------------------------------|---------------------|-------|---------|-------------------------|--------------|---------------------------------|----------------------|
|         | Individ<br>ual    | Cumulat<br>ive | Overa<br>ll |                                 |                         |                       |                               | GPM                 | PBT   | PAT     | Net<br>Contri<br>bution | P/V<br>Ratio |                                 |                      |
|         | (Number of times) |                |             | (Number of<br>times)            |                         | %                     | %                             | %                   | %     | %       | %                       |              |                                 |                      |
| Initial |                   |                |             | 3.00                            | 3.00                    |                       |                               |                     |       |         |                         |              |                                 |                      |
| 1-2     | 1.42              | 1.42           |             | 1.53                            | 1.53                    | 3.92                  | 5.24%                         | 2.83%               | 2.07% | 2585.62 | 10.82%                  | 3.60         | 1.07                            |                      |
| 2-3     | 1.68              | 1.54           |             | 0.75                            | 0.75                    | 2.56                  | 5.86%                         | 3.82%               | 2.56% | 3016.46 | 10.82%                  | 3.80         | 1.18                            |                      |
| 3-4     | 2.00              | 1.68           | 2.01        | 0.35                            | 0.35                    | 1.77                  | 6.29%                         | 4.56%               | 2.95% | 3447.38 | 10.82%                  | 3.83         | 1.30                            |                      |
| 4-5     | 2.40              | 1.84           |             | 0.13                            | 0.13                    | 1.28                  | 6.58%                         | 5.09%               | 3.25% | 3878.30 | 10.82%                  | 3.77         | 1.44                            |                      |
| 5-6     | 2.89              | 2.01           |             | 0.00                            | 0.00                    | 0.97                  | 6.78%                         | 5.49%               | 3.47% | 4309.22 | 10.82%                  | 3.65         | 1.73                            |                      |



# Project at a Glance

## BEP

|   |                  |
|---|------------------|
| BEP - Maximum Utilisation Year                | 5                |
| Cash BEP (% of Installed Capacity)            | 44.45%           |
| Total BEP (% of Installed Capacity)           | 49.28%           |
| IRR, PAYBACK and FACR                         |                  |
| Internal Rate of Return .. ( In %age )        | 28.04%           |
| Payback Period of the Project is ( In Years ) | 2 Years 3 Months |
| Fixed Assets Coverage Ratio ( No. of times )  | 23.690           |





# Major Queries/Questions Answered in the Report?

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

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

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Aluminium Fluoride Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Aluminium Fluoride Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Aluminium Fluoride Manufacturing plant ?**
- 12. What is the Manufacturing Process and Formulations of Aluminium Fluoride 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 **Aluminium fluoride** ” provides an insight into the **Aluminium fluoride** market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of **Aluminium fluoride** project. The report assesses the market sizing and growth of the Indian **Aluminium fluoride** 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 **Aluminium fluoride** sector in India along with its business prospects. Through this report we have identified **Aluminium fluoride** project as a lucrative investment avenue.**

Manufacture of Aluminium Fluoride, Aluminium Fluoride Manufacturing Plant, Aluminium Fluoride Production, Aluminium Fluoride Manufacturing Process, Production of Aluminium Fluoride, Aluminium Fluoride Production Process, Manufacturing of Aluminium Fluoride, Aluminium Fluoride Manufacture in India, Aluminium Fluoride Manufacturing Unit, Production Plant of Aluminium Fluoride, Aluminium Fluoride Manufacturing Business, Production Process of Aluminium Fluoride, Manufacturing Plants of Aluminium Fluoride, Industrial Production of Aluminium Fluoride, Business Plan for Aluminium Fluoride Manufacturing Business, Aluminium Fluoride Manufacturing Industry, Process for Production of Aluminium Fluoride, How to Prepare Aluminium Fluoride, Manufacturing and Formulation of Aluminium Fluoride, Aluminium Fluoride Manufacturing Project Report, Method for Manufacturing of Aluminium Fluoride, Method for Production of Aluminium Fluoride, Aluminium Fluoride Production Method, Manufacturing Method of Aluminium Fluoride, Production Plan for Aluminium Fluoride, Manufacturing Business of Aluminium Fluoride, Business Ideas for Manufacturing of Aluminium Fluoride, Small Scale Aluminium Fluoride Manufacturing Business Ideas & Opportunities, Process for Producing Aluminium Fluoride, Preparation Method for Aluminium Fluoride, Profitable Aluminium Fluoride Manufacturing Business, Start Production of Aluminium Fluoride, Aluminium Fluoride Manufacturing Process in India, How to Make Aluminium Fluoride, Method of Making Aluminium Fluoride,



Aluminium Fluoride Manufacturing Project Ideas, Projects on Small Scale Industries, Small Scale Industries Projects Ideas, Aluminium Fluoride Manufacturing Based Small Scale Industries Projects, Project Profile on Small Scale Industries, How to Start Aluminium Fluoride Manufacturing Industry in India, Aluminium Fluoride Manufacturing Projects, New Project Profile on Aluminium Fluoride Manufacturing Industries, Project Report on Aluminium Fluoride Manufacturing Industry, Detailed Project Report on Aluminium Fluoride Production, Project Report on Aluminium Fluoride Manufacturing, Pre-Investment Feasibility Study on Aluminium Fluoride Manufacturing, Techno-Economic Feasibility Study on Aluminium Fluoride Manufacturing, Feasibility Report on Aluminium Fluoride Production, Free Project Profile on Aluminium Fluoride Manufacturing, Project Profile on Aluminium Fluoride Production, Download Free Project Profile on Aluminium Fluoride Manufacturing, Industrial Project Report, Project Consultant, Project Consultancy, NPCS, Niir, Process Technology Books, Business Consultancy, Business Consultant, Project Identification and Selection, Preparation of Project Profiles, Startup, Business Guidance, Business Guidance to Clients, Startup Project for Aluminium Fluoride Production, Startup Project, Startup Ideas, Project for Startups, Startup Project Plan, Business Start-Up, Business Plan for Startup Business, Great Opportunity for Startup, Small Start-Up Business Project, 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, Detailed Project Plan Reports



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can provide Detailed Project Report on**

# **Production of Aluminium Fluoride**

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**An ISO 9001:2008 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**

# 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*



- *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*

- *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.*

# Sectors We Cover *Cont...*

- *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.*

- *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...*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*



# Contact us

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