

Alufluoride Ltd

UNIT PROFILE

Alufluoride Ltd., (AL) the only Company in Andhra Pradesh produces high - purity Aluminium Fluoride with the new Fluosilicic Acid (FSA) technology developed by Alusuisse, Switzerland. This technology facilitates conversion of fluorine effluents from Phosphatic Fertiliser Complex into Hydrofluosilicic acid (H_2SiF_6).

Coromandel Fertilisers Ltd., uses Phosphate rock to produce phosphoric acid and phosphatic fertilisers. During the process the fluorine gas which is a waste pollutant gets evolved. This gas is scrubbed with water to generate Hydrofluosilicic acid (H_2SiF_6). AL takes this acid and reacts with Aluminium Hydroxide to produce Aluminium Fluoride (AlF_3) thus producing Wealth from Waste.

FSA technology has the following main advantages:

Fluorine at the fertiliser complex is an effluent and a pollutant, unless it is treated with lime or converted into H_2SiF_6 with absorption system. This H_2SiF_6 is reacted with Aluminium Hydroxide to produce Aluminium Fluoride a critical input in the production of aluminium.

This process is considered as Import Substitution as this technology does not require any imported raw materials - as against Hydrofluoric acid route which requires Sulphur and Flourspar to be imported.

The process is cost effective enabling good export potential.

This technology provides High Purity Aluminium Fluoride with less impurities as against alternate technology of Hydrofluoric acid (HF) route.

In advanced countries, this technology is well encouraged as this helps in Conserving Critical Natural Resources like flourspar and sulphur which are used in the HF route technology.

With the above advantages Alufluoride Ltd., enjoys high reputation of their Aluminium Fluoride with increased demand and has been marketing their Aluminium Fluoride to all Aluminium smelters in India. Further, AL has exported to China, Iran, Egypt, Korea, and is regularly exporting to Dubai, thus earning valuable foreign exchange to the Nation. The export earning in the range from Rs.5 - Rs.6 crores every year.

ENVIRONMENT AND SAFETY

High priority is given to Safety, Health and Environment, Afforestation activity is vigorously followed. A lush green belt in and around the factory is an example of Company's commitment to Pollution. The accident rate at the factory is at a record zero level testifies the safety performance.

The Company makes continuous efforts to conserve energy at various levels of operations, thus saving power, cost.

As a measure of Water Conservation both Alufluoride Ltd., and Coromandel Fertilisers Ltd., have developed a system to treat and use recycled water at both ends. AL is regularly following Water Harvesting Practices to conserve water.

While producing Aluminium Fluoride, AL takes all required precautions to make the process Pollution Free with the installation of Pollution Control Facilities.

The Company has been awarded with the following

- 1) "Best Efforts in Environmental Improvement" in Industries located in the State from the Federation of Andhra Pradesh Chamber of Commerce and Industry.
- 2) Certificate of Merit for Exports from Chemexcil for the year 2000-01.

The Company has been accredited with the following performance standards – Copies enclosed

- 1) ISO 9001 : 2000
- 2) ISO 14001 : 1996
- 3) OHSAS 18001 : 1999

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Having developed the market with high quality the Company has plans to expand, diversify into other chemicals to meet the increased demand for Aluminium Fluoride and related products.