

CRESCO ALGAE FORT

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The Genesis

CRESCO ALGAE FORT is a nascent startup firm in the field of aquaculture. It was incorporated in Andhra Pradesh in 2021 and is a Government of India registered Firm.

CRESCO is involved in manufacture and retail of Food products relating to the aquaculture industry, especially pertaining to feed and additives.

The ALGAE – algae such as special types of microalgae like spirulina, etc., pertain to production of color pigments in aquatic life forms like prawns, salmonid fish and ornamental fishes.

CRESCO Objectives

CRESCO aims to cultivate and produce huge quantitative of Algae for Aquaculture Industry for use as Feed and Nutrition agent. It aims for Mass production of Spirulina and value added products with an initial Target of 1Ton per month.

Gradually it aims to develop large scale Algae ponds and be one of the largest producer of Spirulina – both for domestic consumption and also for International exports.

ALGAE as NUTRITION Source

Algae is well known for its ability to absorb and recycle carbon dioxide from the atmosphere. It also help in treatment of wastewater by removing excess Nitrogen and phosphorous elements. Today, a vast majority of commercial algae production is for human and animal nutrition.

Currently 30 per cent of the world algal production is used for animal feed. In aquaculture, Algae is mainly for fish and shrimp.



Algae can be easily cultivated in open-pond algae farms. There is enough carbon dioxide in the air to produce more than a billion tons of algae a year. A lot of Algae Plants in foreign nations help produce omega-3 fatty acids from natural marine algae for animal nutrition.

The most challenging ingredient in fish feed is the fish oil that boosts the omega-3 content in the feed. Algae are rich in omega-3s as a sustainable source that can supplement fish oil.

CRESCO AND MICROALGAE PRODUCTION

Cresco aims to produce large quantities of Algae and Microalgae. This would encompass production of economically important algal species like *Spirulina sp*, *Chlorella sp*, *Dunaliella sp*, *Hematococcus sp*, *Nanochloropsis sp*, *Diatoms*, etc. These are highly useful in the Aquaculture industry as Fish Nutrition.

The Unicellular, Freshwater and Wastewater Algae can be very useful in further production of Bio-fuels, Animal Nutrition feed, Ethanol, Biomass protein, etc. Microalgae contain numerous bioactive compounds that can be harnessed for commercial use. Microalgae such as *Dunaliella salina*, *Haematococcus pluvialis* and *Spirulina sp*. are also used as a source of natural pigments for the culture of prawns, salmonid fish and ornamental fish.

Chlorella sp. And *Spirulina sp.* are commonly included into feeds for ornamental fish, where colouration and healthy appearance is the main market criterion.

CRESCO TO DEVELOP SPIRULINA CULTIVATION

CRESCO plans to develop good infrastructure for both Small scale production and Commercial production of Spirulina for the Aquaculture Industry.

It has been found that the use of Spirulina as complementary feed in various sectors of Aquaculture results in fast and efficient growth factor and also enhances the pigmentation and immunity systems of the aquatic life forms.

Spirulina is considered as an excellent food, lacking toxicity and having corrective properties against the pathogenic micro organisms. It lacks cellulose cell walls and therefore do not require chemical or processing in order to become digestible.



Fig 1: Application of algae in various industries

Fig 2: Overall production chart of Spirulina

