

Sheet N° 10- 1/2 - Alginate and carrageenan production unit

Description



Production unit for alginate and carrageenan from red and brown seaweed collected from local agents. Products in the form of food additives that can be used as gelling agents, stabilisers and emulsifiers. Capacity of approximately **250 tonnes per year**

Main customers : Food and pharmaceutical industry

Branch and sub-branch: Biotechnology / Marine biotechnology

Complexity of the product¹ -3,33 -0,97 2,56

HS Code² : 130239

Key facts

- Project strongly correlated with ANDA's aquaculture plan to develop the aquaculture sector (including marine biotechnology)
- Availability of resources at national and regional level: Moroccan seaweed production is growing rapidly and is estimated at 22,000 tonnes in 2020
- International potential with a market growing at ~6% per year and driven by the increasing need for natural food thickeners

Prerequisites ⁽³⁾

- Need to secure the supply of algae

Market indicators

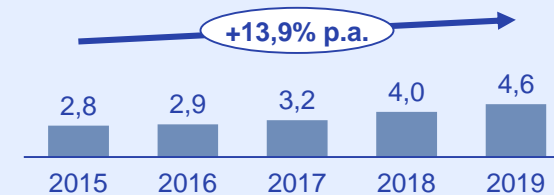
Target market(s) :

Target market(s), (from highest to lowest priority) to be addressed :

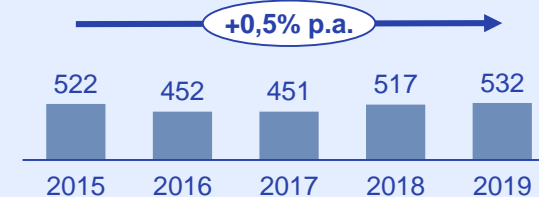
- + Exports mainly to Europe (Germany, Spain, United Kingdom...)
- National (including local) as a substitute for imports mainly from France

Market size and development

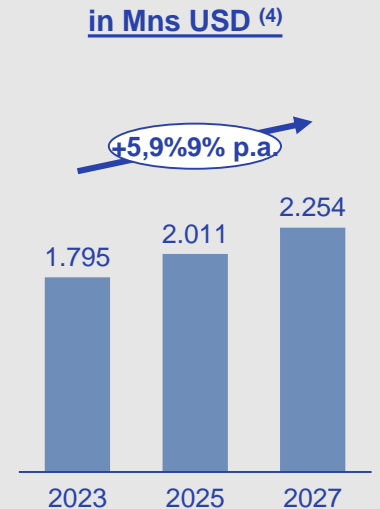
Moroccan imports of mucilages and thickeners derived from plants in USD million⁽⁵⁾



European imports of plant-derived mucilages and thickeners in USD million⁽⁵⁾



Estimated evolution of the global alginate and carrageenan market in Mns USD ⁽⁴⁾



(1) Product Complexity Index: Diversity and sophistication of the know-how required to produce a product. The PCI is calculated according to the number of countries that produce the product and the economic complexity of these countries. The most complex products, those that only a few countries can produce, have the highest PCI (e.g. electronics, chemicals) vs. the least complex products (e.g. raw materials, agricultural products). Source: Harvard Economic Complexity

(2) Customs nomenclature taking into account the following codes: 130239. Source: TradeMap

(3) Market research on alginate and carrageenan by Market Research and Straits Research

(4) Historical imports of Mucilages and thickeners, whether or not modified, derived from plants (excluding agar-agar and mucilages and thickeners derived from locust beans, locust bean seeds or guar seeds).

Source: TradeMap



Sheet N° 10- 2/2 - Alginate and carrageenan production unit

Financial indicators (indicative) :

Potential investment	5 - 10 Mns MAD
Turnover	10 - 20 Mns MAD
Estimated selling price	50 - 100 MAD/Kg
ROI	3 - 5 years
EBITDA (as % of sales)	~10 - 15%
Jobs	~20

Human resources

HR skills needed

- Laboratory staff (chemical specialists), harvesting and production staff

Training offers

- Aquaculture sector - CMC Agadir

Raw materials and suppliers

Main inputs

- Red algae
- Brown algae

Main suppliers

- Morocco

Investment elements

Potential land

Priority provinces

✓ Boudjour

✓ Tarfaya

Type of land

Private state domain (e.g. Amgriou village)

Area

~2000m²

Average land price

Unified Regional Investment Commission (CRUI)

Mode of mobilisation

Unified Regional Investment Commission (CRUI)

Main investment benefits

Grant

ISTITMAR SME

Support for training

IDMAJ Programme, TAHFIZ Programme, TAEHIL Programme

Other

ANDA support: training support, tax incentives, technical and economic monitoring

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