

# Sheet n°06 -1/2 - Microalgae breeding and drying unit

## Description



Unit for the selection, collection, cultivation and drying of microalgae. Production capacity of approximately **1800 tonnes**

**Main customers :** Food, cosmetics and pharmaceutical industries

**Branch and sub-branch:** Biotechnology/ Marine biotechnology

Complexity of the product<sup>1</sup> -3,33 2,56  
- 1,88

HS Code<sup>2</sup> : 1212

## Key facts

- Presence of the necessary microalgae strains for farming in the region
- Project strongly correlated with ANDA's aquaculture plan to develop the aquaculture sector (including marine biotechnology)
- International potential: Market growing at ~5-6% p.a. driven by the diversity of outlets (cosmetics, food, energy...) offered by microalgae as well as the continuous search by consumers for products with health benefits

## Prerequisites <sup>(3)</sup>

- Granting of the necessary land by the ANDA \*\*\*\*\*

## Market indicators

### Target market(s) :

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

- + Export to various countries around the world (China, USA, France...)
- National and Local for future marine biotechnology projects in the region

### Market size and development

#### World imports of algae and microalgae in Mns USD <sup>(5)</sup>



#### Estimates of the evolution of the global microalgae market in Mns USD<sup>(4)</sup>



(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: 121220, 121221, 121229, Source: TradeMap

(3) Microalgae market study by Allied Market Research

(5) History of algae and microalgae imports. Source: Trademap



# Sheet n° 06 -2/2 - Microalgae breeding and drying unit

## Financial indicators (indicative) :

Potential investment	50 - 100 Mns MAD
Turnover	250 - 500 Mns MAD
Estimated selling price	20 - 150 USD/Kg
ROI	1 - 2 years
EBITDA (as % of sales)	15 - 30%
Jobs	~50 jobs

## Human resources

### HR skills needed

- Biologist, chemical engineer, quality manager, laboratory technicians

### Training offers

- Aquaculture sector - CMC Agadir

## Raw materials and suppliers

### Main inputs

- Microalgae strains
- Nutrients

### Main suppliers

- Morocco
- Germany
- Italy

## Investment elements

### Potential land

#### Priority provinces

✓ Boujdour

✓ Tarfaya

#### Type of land

Private state domain (e.g. sites identified by ANDA)

#### Area

5- 10 Ha

#### Average land price

Unified Regional Investment Commission (CRUI)

#### Mode of mobilisation

Unified Regional Investment Commission (CRUI)

### Main investment benefits

#### Grant

Investment Charter

#### Support for training

IDMAJ Programme, TAHFIZ Programme, TAEHIL Programme

#### Other

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

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