

**File reference:** F/MOROCCOseawater2012-JMF-0005  
**Project:** Sea Water, Morocco - Boujdour-Safi-Guelmim Sidi Ifni-Nador- Bouznika

# MOROCCO

“Boujdour - Safi - Guelmim Sidi Ifni - Nador - Bouznika”

## SEA WATER TREATMENT PLAN

**F/MOROCCOseawater2012-JMF-0005**

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<b>Project Name</b>	Sea Water Treatment Plan Morocco
<b>File Reference</b>	<b>F/MAROCCOseawater2012-JMF-0005</b>
<b>Project Location/Country</b>	MOROCCO: Boujdour Safi Guelmim Sidi Ifni Nador Bouznika
<b>Number Of Employees</b>	15,000 Employees
<b>Financial Advisor/Phone</b>	Nicolas PERRUCHOT
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<b>Funding Amount / USD</b>	Five Billion US Dollars
	US \$ 5.000.000.000,00

**Developer : Josephine Medical Foundation LLC**

### 1. Project:

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The project aims to treat sea water, on desalination basis to irrigate large space of agricultural lands, and to produce Fresh drinking water for human consumption.



## 2. Utility:

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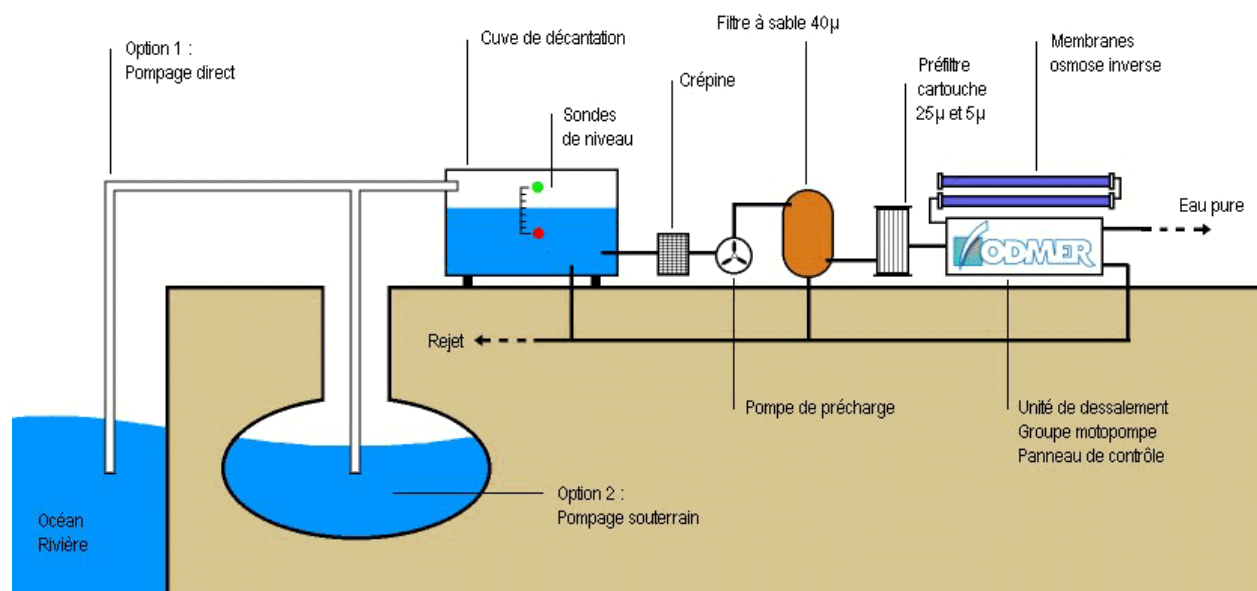
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- Due to the lack of rain and water resources, the agricultural area is under desertification and threatening the livestock and animals, as well as the green lands.
- The area under high poverty, farmers cannot use their lands to produce and sell crops for living.
- Supply of water will irrigate the farmer's lands, will create jobs, produce agricultural products to be sold in markets; and reduce unemployment.
- To achieve this plan, the government institutions have to secure all necessary authorizations, accelerate all approvals procedures. International funding specialists and entities to provide necessary funds to finance these projects.



### 3. Project Description:

- The idea behind these projects comes out of the needs, and after being in contact with officials, and hearing locals about their worries and problems.  
Having travelled and seen advanced technologies in water treatment, being in contact with international firms in this field, I discovered that in using this technology will replace the shortage of rain and other water resources. The project still under feasibility study and international firms provided its expertise to secure the execution of these projects.
- Treating water will be a pioneer project and will bring many positive issues to the concerned community in charge, it will help the governmental authorities to solve major desertification problem, as well as it will creates jobs, and enhance better living.  
Producing agro products, is a humanitarian project, it effects on governmental budget and social security funding charges.  
The irrigation of lands will help the environment, increase green areas, and satisfy the market needs from its produce and will lead for other social activities.



- **LOCATIONS:**



The Sea Water Treatment project will consist of different plants in the following cities:

- |                          |                   |                  |
|--------------------------|-------------------|------------------|
| <b>1. First Region:</b>  | <b>NADOR</b>      | <b>Number 08</b> |
| Nador:                   | 180.000 peoples   |                  |
| Rachidia:                | 2.200.000 peoples |                  |
| <b>2. Second Region:</b> | <b>BOUZNKA</b>    | <b>Number 10</b> |
| Bouznika:                | 30.000 peoples    |                  |
| Bensliman:               | 50.000 peoples    |                  |
| Khribga:                 | 170.000 peoples   |                  |
| <b>3. Third Region:</b>  | <b>SAFI</b>       | <b>Number 11</b> |
| Asafi:                   | 290.000 peoples   |                  |
| Yousefia:                | 65.000 peoples    |                  |
| <b>4. Fourth Region:</b> | <b>GUELMIM</b>    | <b>Number 03</b> |
| Guelmim:                 | 180.000 peoples   |                  |
| Tantan:                  | 62.000 peoples    |                  |
| Semara:                  | 42.000 peoples    |                  |
| Tata :                   | 41.000 peoples    |                  |
| <b>5. Fifth Region:</b>  | <b>BOUJDOUR</b>   | <b>Number 02</b> |
| Laayoune:                | 190.000 peoples   |                  |
| Boujdour:                | 50.000 peoples    |                  |



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The projection is to install sea water treatment plants with various capacities. Water will be used mainly for irrigation, and other units for drinking use and human consumption.

- **Project cost:**

- Sea Water Treatment Plants (Desalination plants)
- Water Reservoirs
- Pump Stations
- Connection to main city pipe line.
- (Fresh Water and Brakish- irrigation Water reservoirs)



**Total Cost: USD \$ 1.000.000.000,00 American Dollars per each.**

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This will include:

- Design,**
- Field**
- Construction,**
- Equipment,**
- Commissioning,**
- Training and Maintenance.**

Design Period will take 6 to 8 months.

Construction: 16 months

Civil Works, Piping and connection to cities main lines: 14 – 16 Months.

Expected completion of works is 2 Years.

International Consultants and Manufacturers will participate in Design.

Main Water lines will be made of Glass Reinforced Pipe.



**TIMMING:**

Land purchase, project development and program start-up	US\$	150.000.000.00
EPC, Plant and Equipment Acquisition/Deposits	US\$	250.000.000,00
Pre-shipment of Equipment	US\$	400.000.000,00
Commissioning	US\$	200.000.000,00