

A rustic and performing waste water treatment plant well adapted to rural communities from 500 to 3000 pe.

- > The **Oxylag** permits to respect all the standards levels for outlet water to the river.
- > The **Oxylag** is a lagooning process. Which the hydrodynamics permits to restrict the dimensions of pools.
- > Biological treatment is realised in two aerated pools, which the conditions of treatment are adapted to standards Europeans norms.



## OPTIMIZATION:

- > **Optimization of the aeration and mixed.** The deep aeration well (3 meters) allows a first air transfer to the effluent. That allows the circulation of the water without electromechanical material.

- > **Optimization of the waste water treatment:** Dimensions of the treatment pools with a high of water (1,5m of useful water) permit to the OXYLAG to be a mixing process between natural lagooning and aerated lagooning.

## OXYLAG ESCRONES

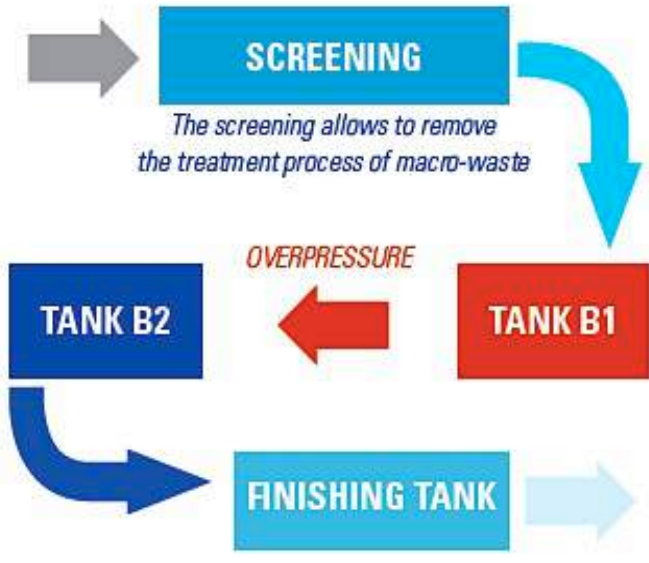


## ADVANTAGES

- > No noise and no smell at all
- > Limited footprint: 2,5 m<sup>2</sup>/IE
- > Sludge mineralisation and postponed management
- > Energy saving
- > Minimal operating time
- > Reduced maintenance and upkeep



- > No motors inside the pools
- > Very integrated on the landscape
- > Flexible and evolutive process



**The tank B1 permits:**

- > A reduction around 75% of the residual COD and BOD
- > A reduction around 20% of the residual nitrogen

**The tank B2 permits:**

- > Reduction around 85% of the residual COD and BOD
- > A reduction around 80% of the residual nitrogen

**The finishing tank permits:**

- > A quiet hydraulic flow useful for a good separation between the clear water and the residual suspended solid.
- > According cases, this pool can be change by plant filtration unit or a sand filtration in continuous washing.

> **Mass head:** 20 a 35g DBO5/m3/d

> **Sludge production and frequency of racking:**  
70 l/IE/year – 5 to 20 years

> **Staying period in the tratment line:** 10 to 20 days

> **Energy consumption:** 20–30 kW/IE/year

**REFERENCES**

With more than 30 references, and according your waste water treatment project, Eau Pure International and its staff, not only control all the technical potentialities of processes, but also control the erection and starting-up.

**M'HAYA STATION (MOROCCO)**

