

**Afri**

**INDUSTRIAL WASTEWATER  
TREATMENT PLANTS**



## INDUSTRIAL WASTEWATER PURIFICATION

AfriTechnics **designs** and **manufactures** industrial wastewater treatment plants, proposing technologies capable of treating water for its reuse in the production cycle, thus obtaining a reduction in costs and optimizing the environmental impact.

We **customize** the plant solutions according to the specificities of the production processes, as well as the characteristics of the water to be treated, in order to ensure adequate discharge standards or to make the water suitable for its reuse.

We are able to serve various industrial sectors: **Steel, Textile, Food, Mining, Oil & Gas, Paper, Livestock, Agricultural.**



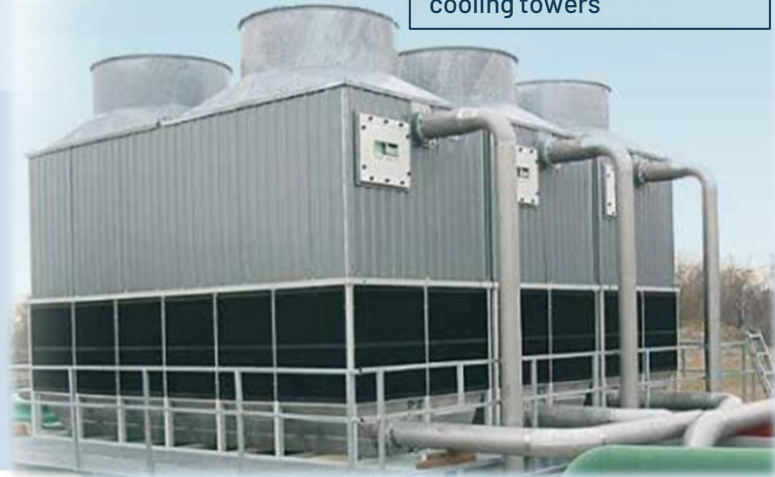
## WHAT WE DO

- Design and Realization of industrial Wastewater treatment plants.
- Technical consulting for feasibility studies, general projects and executive projects.
- Coordination and technical assistance for every phase of the plants installation.



# STEEL INDUSTRY

Water cooling by means of pre-fabricated evaporative cooling towers



## APPLICATION FIELDS

- PLANTS FOR DIRECT AND INDIRECT CIRCUITS.
- MAKE-UP WATER TREATMENT PLANT.
- BLOW-DOWN WATER TREATMENT PLANT BY CHEMICAL-PHYSICAL AND FENTON TREATMENTS.
- CLOSED CIRCUIT TREATMENTS.
- ULTRA-FILTRATION WITH CERAMIC MEMBRANE FOR OIL REMOVAL.



Filters of steel with diameter up to 5000 mm. - completely automatic filtering system.



Dry coolers plant for steel industry -  $Q = 2500 \text{ m}^3/\text{h}$ ..



Ultra-filtration plant for  $150 \text{ m}^3/\text{h}$



Reverse Osmosis plant for  $150 \text{ m}^3/\text{h}$ .





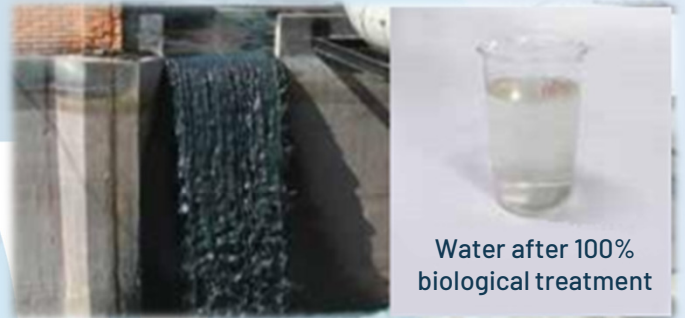
# TEXTILE INDUSTRY

## APPLICATION FIELDS

- 100% BIOLOGICAL PLANTS, M.B.R. and S.B.R.
- COLOR REMOVAL PLANTS BY CHEMICAL-PHYSICAL, OZONE AND RESIN TREATMENTS.
- MICRO FILTRATION.
- WATER RECOVERY.
- ZERO DISCHARGE PLANTS.
- NEUTRALIZATION BY CO<sub>2</sub> FROM CHIMNEYS.
- SLUDGE DEHYDRATION.
- P.V.A. TREATMENT



Wastewater treatment by 100% biological technology.



Water after 100% biological treatment

Typical wastewater from a dye-house.



Oxidation tank carousel type - Q = 10.000 m<sup>3</sup>/day.



M.B.R. treatment - Q = 9600 m<sup>3</sup>/day.



Reverse osmosis plant  
Q = 2500 m<sup>3</sup>/day.



Ultra-Filtration unit  
Q=2500 m<sup>3</sup>/day



# FOOD INDUSTRY

## APPLICATION FIELDS

- SLAUGHTER HOUSE AND MEAT WORKING.
- DIARIES AND MILK WORKING FACTORIES.
- WINERIES AND BOTTLING.
- PLANTS FOR FOOD CHAINS AND GASTRONOMIES.
- FRUIT JUICES MILLS AND BREWERIES.
- VEGETABLES AND FRUITS WASHING



Fruit juices plants for -  $Q = 2000$  m<sup>3</sup>/day.



Pre-fabricated tanks for biological in slaughter house.



Oxidation tanks -  $Q = 1500$  m<sup>3</sup>/day.



Flotation plant -  $Q = 1000$  m<sup>3</sup>/h



Plant view of food water treatment plant.



# MINING

## APPLICATION FIELDS

- PLANTS FOR SOLIDS SEPARATION FROM WATER.
- CLARI-FLOCCULATORS.
- SOLIDS THICKENING AND FILTRATION.
- MOBILE DRINKING WATER TREATMENT PLANTS FOR LABOR CAMPS.
- WASTEWATER TREATMENT PLANTS FOR LABOR CAMPS (MBR, MBBR).



Filter press for sludge dehydration.



Quartz filtration unit for suspended solids removal.



Steel sedimentation tank for mining industry.



View of sand filtration.



Quartz filtration unit.



Quartz filtration unit for suspended solids removal.



# OIL & GAS

- APPLICATION FIELDS**
- SOLIDS FILTRATION BY WATER.
  - SOLIDS FILTRATION BY GAS.
  - SEPARATION OF LIQUIDS FROM GAS.
  - SEPARATION OF LIQUIDS FROM LIQUIDS.
  - SEPARATION IN DIFFERENT PHASES LIQUIDS/SOLIDS/GAS.
  - GAS TREATMENT

Reverse osmosis on Skid



View of filtration system with valves.



Filtration unit



Self-cleaning filter



Separator filter



**Zambian Office Physical Address:**  
Unit A7 York Commercial Park  
Kafue Road 10101 Lusaka - Zambia  
ph +26 0966 480467

**Italian Office Physical Address:**  
V.le D. Bramante,103  
05100 Terni - Italy  
ph +39 0744 1925828

[www.afritechnicsindustries.com](http://www.afritechnicsindustries.com)  
[info@afritechnics.com](mailto:info@afritechnics.com)