

## AIUD WWTP, Romania

### Turnkey execution of wastewater treatment plant



The existing wastewater treatment plant at Auid in Alba County was technologically outdated and therefore decommissioned.

The municipality decided for the building of a new state-of-the-art treatment plant, supported with co-financing of the EU (80%).

WABAG was awarded the contract for the turnkey-realisation of the new plant including civil construction and the demolition of existing structures.

The new WWTP features mechanical pre-treatment, activated sludge process for

biological treatment and sludge treatment.

The plant was commissioned in 2015.

### Features

- Turn-key construction of municipal WWTP
- Mechanical and biological treatment
- 24,000 PE



**Client**  
SC APA CTTA SA ALBA

**Type of contract**  
EPC -turnkey execution

**Financing**  
Co-financed by EU (80%)

**Award of contract**  
July 2012

**Commissioning**  
2015

**Capacity**  
24,000 PE  
16,500 m<sup>3</sup>/d

**Raw water**  
Municipal wastewater

**Main Technology**  
Activated sludge process

## Main Process Steps

- **Primary treatment:** Coarse and fine screen, sand removal, grease separation.
- **Biological treatment:** Activated sludge process for carbon reduction, nitrification, denitrification, biological reduction of phosphorus.
- **Sludge treatment:** Thickening, dewatering, lime conditioning, storage.
- Laboratory
- Auxiliary buildings

## Scope:

- Design, engineering, supply and installation of mechanical and electrical equipment, SCADA automation system, instrumentation and laboratory equipment.
- Commissioning, including civil construction works, training of operating team and operation and maintenance support for one year.

Parameter	Units	Limits
BOD <sub>5</sub>	mg/l	≤ 25
TSS	mg/l	≤ 35
COD	mg/l	≤ 125