

Cugir WWTP, Romania

Turnkey execution of wastewater treatment plant



The existing wastewater treatment plant at Cugir in Alba County became technologically outdated and therefore was decommissioned.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
- 30,000 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

30,000 PE

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 ₅	mg/l	≤ 25
TSS	mg/l	≤ 35
COD	mg/l	≤ 125

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