

Cugir WWTP – Alba County, Romania

EPC of green-field Municipal WWTP



The existing wastewater treatment plant in Cugir, Alba County, became technologically outdated and therefore was decommissioned.

The municipality decided the building of a new state-of-the-art treatment plant, supported with co-financing from the EU.

NAIAD Water Solutions was awarded the contract for the turn-key execution of the new plant, including the demolition of existing structures.

The new WWTP features mechanical pre-treatment, activated sludge treatment as the biological treatment stage, and sludge treatment.

The plant was commissioned in 2015.

Features:

- Turn-key construction of municipal WWTP
- Mechanical and biological treatment
- 30.000 PE



Client

APA CTTA ALBA

Type of Contract

EPC - Turn-key Execution

Financing

Co-Financed by EU

Award of Contract

July 2012

Commissioning

2015

Capacity

30.000 PE

Raw Water

Municipal Wastewater

Main Technology

Activated Sludge Treatment

Main Process Steps:

Primary treatment: Coarse and fine screen, sand removal, grease separation

Secondary treatment: Activated sludge treatment for carbon reduction, nitrification, denitrification, biological reduction of phosphorus

Tertiary treatment: Chemical reduction of phosphorus

Sludge treatment: Thickening, dewatering, lime conditioning, storage

Laboratory

Auxiliary buildings

Scope:

Design, engineering, civil construction works, supply and installation of mechanical and electrical equipment, SCADA automation system, instrumentation and laboratory equipment.

Commissioning, training of operating team and operation and maintenance support for one year.

Parameter

Units

Limits

BOD₅

mg/l

≤ 25

TSS

mg/l

≤ 35

COD

mg/l

≤ 125