

Aiud and Ocna Mures WWTPs - Alba County, Romania

EPC of green-field
Municipal WWTP



The existing wastewater treatment plants in Aiud and Ocna Mures, Alba County, were technologically outdated and therefore decommissioned.

The municipality decided to invest in a new state-of-the-art treatment plant, supported with co-financing of the EU.

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

The new WWTPs feature mechanical pre-treatment, activated sludge treatment as biological treatment stage, and sludge treatment.

The plants were commissioned in 2015.

Features:

- Turn-key construction of municipal WWTPs
- Mechanical and biological treatment
- 24.000 PE Aiud
- 15.000 PE Ocna Mures



Client

APA CTTA ALBA

Type of Contract

EPC - Turn-key Execution

Financing

Co-financed by EU

Award of Contract

July 2012

Commissioning

2015

Capacity

24.000 PE Aiud

15.000 PE Ocna Mures

Raw Water

Municipal Wastewater

Main Technology

Activated Sludge Treatment

Main Process Steps:

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

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