

Philip Morris WWTP – Ilfov County, Romania

EPC and O&M of
green-field WWTP



The state-of-the-art factory of Philip Morris International (PMI) in Otopeni, located very close to Bucharest, was built in 1997. In 2018 and 2019 the production capacity was extended by adding a new production line.

The facility for treatment of industrial and domestic effluents no longer met the new requirements with regard to volumes and pollution loads in line with the expansion.

NAIAD Water Solutions was awarded the project to install a new WWTP set to serve the new production line and has

designed a tailor-made multi-stage treatment plant employing advanced technologies to meet all effluent requirements.

The plant is designed with a capacity of 800 m³/day, with an additional treatment capacity of another 800 m³/day for utilities wastewater.

The plant was executed within only eleven months.

Features:

- Turn-key project
- Tailor-made ETP design with advanced technologies and FLUOPUR® MBBR
- Execution period: 11 months
- Plant Capacity: 800 m³/d + 800m³/d (2 lines)



Client

Philip Morris International (PMI)

Type of Contract

EPC – Turn-key Execution

Award of Contract

November 2017

Commissioning

October 2018

Capacity

800 m³/d + 800 m³/d

Wastewater

Effluents from Tobacco Industry

Technology

DAF, MBBR – FLUOPUR®,
GAC-Filtration

Scope

Design, equipment supply,
installation, commissioning
and start-up

O&M

2018 - ongoing

Main Components and Process Steps:

- Dissolved Air Flotation (DAF)
- Cooling system
- Biological treatment including moving bed bioreactor FLUOPUR® (IFAS)
- Sludge treatment
- Dual Media Filter
- Activated Carbon (GAC) Filtration
- Odour control system



Parameter Wastewater

Units

Effluent Limits

pH

mg/l

6,5 - 8,5

COD

mg/l

100

BOD₅

mg/l

20

TKN

mg/l

2,3

Amonium-N

mg/l

1,6