

# Water Treatment Plant

Jelgava, Latvia



**AARSLEFF**

Aarsleff was awarded a turnkey contract for design and construction of a water treatment plant in Jelgava, Latvia. The contract works included all civil, mechanical and electrical/SCADA works as well as commissioning, testing and training of the technical and operational staff.

The contract including design was executed within 24 months from the day of commencement.

## Works under the contract

Construction of a fully automatic water treatment plant with a capacity of 16,000 m<sup>3</sup>/day. Raw water to the plant is via a double pipeline supplied from 12 wells located approximately 8 kilometres from the plant. The operation of the water treatment plant is automatic and controlled by SCADA and the treated water is supplied to the consumers via the existing network in Jelgava. The quality of drinking water complies with EU Directive 98/83 EC.

## Treatment by Nano-filtration

According to EU drinking water standard there is a limit for content of SO<sup>4--</sup>. As the raw water from the wells crosses that limit of SO<sup>4--</sup>, a minor part of the water is led through a Nano-filtration plant. The Nano-filtration plant removes the content of SO<sup>4--</sup> in the minor part and subsequently, all the treated water is mixed in the reservoir afterwards. The capacity of the Nano-filtration plant is 4,000 m<sup>3</sup>/day.



#### **Contract conditions**

The contract works were executed according to FIDIC Yellow Book, "Plant and Design – Build" and Latvian Building Norms.

#### **Client**

Sia Jelgava Udens, Udensvada iela 4, Jelgava, Latvia

#### **Financing**

EU Cohesion Fund and Latvian State Budget

#### **Contract value**

EUR 11. 7 million

#### **Contract period**

2012-2014

#### **Contact**

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